



COLLEGE OF COMPUTER AND INFORMATION SCIENCE

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**Academic Year 2024 – 2025**

### **Final Practicum Report**

Vincent Luis R. NUEVA ESPAÑA

Course Coordinator: Dennis A. Martillano

Host Training Establishment: STMicroelectronics Inc. Calamba

Submitted to the Faculty of Mapúa Malayan Colleges Laguna  
In Partial Fulfillment of the Requirements for the degree of

Bachelor of Science in Computer Science

## **Overview of the Practicum Engagement**

### **Company Background**



*Figure 1. STMicroelectronics Inc. Logo*

The student interned at **STMicroelectronics Inc.**, a global semiconductor leader with advanced manufacturing operations located in Calamba, Laguna. STMicroelectronics is widely recognized for its commitment to innovation, operational excellence, and sustainable technology development. Situated in Carmelray Industrial Park II, Calamba, STMicroelectronics Philippines was established as part of the company's global network to support advanced packaging, testing, and new product introduction (NPI) activities in the Asia-Pacific region.

As a frontrunner in the semiconductor industry, STMicroelectronics specializes in designing, manufacturing, and delivering intelligent and energy-efficient microelectronics solutions that power a wide range of applications from automotive systems and industrial automation to personal electronics and the Internet of Things (IoT). The Calamba site plays a pivotal role in the company's back-end manufacturing capabilities, particularly in assembly

and test operations for microcontrollers, sensors, and analog ICs, which are essential for high-reliability and consumer-grade applications.



*Figure 2. STMicroelectronics STM32 Product*

STMicroelectronics fosters a high-performance work culture grounded in quality, innovation, and environmental responsibility. The company actively invests in the development of its workforce, providing extensive training and career development programs that empower employees and interns alike. Through its comprehensive internship and practicum programs, STMicroelectronics enables students to gain hands-on experience in real-world engineering, quality assurance, information systems, and supply chain operations within a state-of-the-art manufacturing environment.

STMicroelectronics Inc. Calamba continues to be a cornerstone of the company's industrial strategy in Southeast Asia, delivering consistent performance and technical advancement in semiconductor manufacturing while supporting the local economy and nurturing future engineering talent.

### **Nature of the Tasks Given**

During my practicum at STMicroelectronics Inc. Calamba, I was assigned under the New Product Introduction (NPI) department, specifically within the Project Management

Group (PMG). The scope of my tasks was comprehensive, encompassing both technical execution and process documentation aligned with the full NPI life cycle. My responsibilities were carefully designed to integrate my academic background in Computer Science with real-time semiconductor manufacturing operations.

A significant portion of my daily activities revolved around understanding and supporting the structured NPI process, which is composed of four main phases: Initialization, Planning, Execution, and Closure. I was oriented on the technical gap assessments and planning protocols necessary to initiate new projects, including exposure to Final Technical Gap Analysis (TGA), Test Vehicle Matrix preparation, and milestone documentation such as OK2VAL and OK2PROD.

I was also entrusted with inventory management responsibilities within the production floor, which involved the systematic tracking and organization of components, ensuring proper material handling in accordance with industry standards. I reviewed and verified runcards for lot identification, checked material usage logs for epoxy, wire, and die components, and became familiar with the lot query system for data retrieval and traceability. These tasks highlighted the importance of meticulous documentation in maintaining product integrity and resolving quality issues.

My exposure to semiconductor assembly processes spanned both Front-of-Line (FOL) and End-of-Line (EOL) operations. I observed and reported on critical procedures such as wafer sawing, die attach, wire bonding, molding, and singulation particularly for QFN product types. I learned to identify key process points, potential risks, and compliance requirements associated with each stage.

Additionally, I operated specialized inspection tools including the Keyence VHX-7000 digital microscope, Olympus MX51 optical microscope, and the MIT-LH2000i for manual

measurements and substrate verification. These instruments were essential in failure analysis, substrate inspection, and quality assurance tasks, and they provided me hands-on experience with real semiconductor evaluation workflows.

Throughout the practicum, I also participated in internal seminars such as the AUROTECH Dicing Blade Seminar and Cybersecurity Awareness Training and many more. These sessions enhanced both my technical literacy and my awareness of cross-disciplinary risks and controls in a high-tech environment.

In summary, the nature of the tasks given to me focused on integrating technical operations with structured documentation, promoting traceability, quality control, and efficient project management within the NPI flow. The experience cultivated my skills in process adherence, analytical inspection, digital documentation, and cross-functional coordination all of which are essential in modern semiconductor production environments.

### **Total Hours Rendered**

In total, the student rendered 324 hours of practicum training at STMicroelectronics Inc. Calamba, spanning from April 22 to July 31, 2025, with a regular schedule of 8:00 AM to 5:30 PM, Monday to Friday. The internship commenced with 8 hours of HR orientation and 24 hours of manufacturing orientation, which laid the groundwork for understanding company policies, workplace expectations, and semiconductor operations. The core of the practicum 244 hours was spent under the New Product Introduction (NPI) department, specifically within the Project Management Group (PMG).

During this period, the student engaged in process immersion activities, including engineering lot management, product qualification planning, and hands-on documentation aligned with the NPI lifecycle. The student also participated in coaching sessions with

engineers, technicians, and project managers, and received training on tools such as Power BI and inspection systems. In the final stretch, 60 hours were allocated for the practical application of skills and preparation for the capstone presentation, which was successfully delivered on July 18, 2025. The remaining days will be allotted for exit clearance and report completion, with the internship officially concluding on July 31, 2025.

*Table 1.0  
Summary of Hours Rendered*

Month	Purpose	Intervention	Hours	Performance
1	HR Orientation Mfg. Orientation	- HR Orientation - Manufacturing Orientation	- 8 hours - 24 hours	- Attendance - Application of Learning
2	On-the-Job Practice and Skill Application Coaching, Mentoring, and Project Application	- Project Management 1. New product manufacturing flow 2. Basic manufacturing process 3. Engineering lot management 4. Qualification plant and execution 5. Report Creation - Power BI Training - Coaching sessions with technician, engineer, and manager - Project completion and presentation	- 244 hours  - 20 hours - 10 hours  - 10 hours	- Attendance - Weekly accomplishment of tasks - Supervisor feedback - Level 2: actual exercise results  - Progress tracking - Level 3: Post-assessment - Level 1: OJT experience survey - Level 4: Project presentation and acceptance
3	Apply learnings in project that is relevant to the plant and the student	- Practical Application of Skills - Project Presentation	- 60 hours	- Attendance - Weekly accomplishment of tasks - Supervisor feedback - Exit Clearance
				Total: 324 hours

## **Presentation of Output and Activities**

### **Power BI and 7QC Tools Training**

As part of my practicum training at STMicroelectronics Inc. Calamba, I participated in a specialized training module focused on Power BI and the 7 Quality Control (QC) Tools, both of which are critical in ensuring quality assurance and data-driven decision-making in a semiconductor manufacturing environment.

During the Power BI training, I was introduced to several advanced features that go beyond the capabilities of standard Excel. While Excel requires manual updates and static visuals, Power BI allowed us to create interactive dashboards, implement automated data refreshes, and perform advanced calculations using DAX (Data Analysis Expressions). One of the most impactful features was the drill-down capability, which enabled me to analyze yield trends across different time frames and quickly identify specific weeks or defect categories causing performance dips. I also explored Power BI's data modeling functions, where I learned how to integrate multiple datasets such as machine logs, yield reports, and defect inspections into a single comprehensive report. These features significantly streamlined data handling and provided a more insightful, real-time overview of factory performance compared to the manual methods in Excel.

In tandem with this, the 7 QC Tools provided a structured approach to identifying and addressing process-related issues. The Pareto Chart, for instance, helped me identify the most common defects contributing to major yield losses, aligning with the 80/20 principle often used in quality analysis. The Cause-and-Effect Diagram (or Ishikawa Diagram) guided my thinking in tracing back the root causes of quality issues to contributing factors such as materials, manpower, methods, and machinery. Through Histogram analysis, I was able to observe the distribution and variation of production metrics like bond line thickness, helping assess whether

the process was consistently operating within control limits. Control Charts allowed for monitoring process stability over time, signaling when variations became abnormal or potentially detrimental. Meanwhile, Check Sheets facilitated the structured collection of inspection data during visual checks, and Scatter Diagrams helped reveal correlations, such as between equipment temperature and reject rates. Stratification, finally, taught me how to isolate data by categories like operator shift or machine ID to pinpoint trends that might be hidden in aggregated reports.

To apply all the learnings from the training, we were grouped into two- to three-person teams and were each given a set of dummy data, simulating a realistic scenario from the manufacturing floor. We were tasked to analyse this data using both Power BI and the 7 QC tools, culminating in a formal business-style presentation where we reported our findings, diagnoses, and recommendations as if addressing upper management in a corporate setting. This not only strengthened our technical understanding of the tools but also allowed us to demonstrate our analytical thinking, data presentation skills, and teamwork in a simulated professional environment.

### **Basic Blade Seminar by Aurotech**

As part of my exposure to semiconductor production tools and best practices during my practicum at STMicroelectronics Calamba, I had the opportunity to attend a technical seminar conducted by Aurotech Corporation, focusing on the Basic Blade Seminar. This session provided an in-depth introduction to the design, functionality, and operational considerations surrounding dicing blades used in wafer singulation processes. The seminar covered essential topics such as blade composition (resin, metal, and hub types), grit size, and bonding materials, all of which affect the precision and quality of wafer cutting. A significant portion of the discussion focused on the proper selection and maintenance of blades to ensure optimal

performance and minimize defects such as chipping or cracking during dicing. This highlighted the critical role of component selection in achieving precision and reliability in high-volume manufacturing.

We were also introduced to the technical standards and process parameters relevant to blade alignment, spindle speed, and feed rate key factors that directly influence cut quality and tool lifespan. The speaker highlighted common failure modes encountered in the dicing process and presented troubleshooting techniques rooted in actual industry scenarios. These real-world applications underscored the importance of problem-solving skills and understanding cause-and-effect relationships between machine settings and output quality an essential learning experience even for someone coming from a computer science background.

Through this seminar, I was able to understand how critical proper blade handling and process calibration are to preserving wafer integrity and maximizing production yield. It became clear how even microscopic imperfections or misalignments could result in significant yield loss, increased costs, or damage to subsequent assembly processes. One of the most impactful realizations was how seemingly minor physical components, such as a blade, could hold immense operational and financial significance in semiconductor production.

This seminar not only expanded my technical knowledge on precision tools but also demonstrated how cross-functional collaboration between tool suppliers and engineering teams ensures continuous improvement in semiconductor manufacturing. It reinforced the importance of preventative maintenance, equipment compatibility, and material behaviour factors often beyond the traditional scope of computer science but essential in a manufacturing environment. Ultimately, the session emphasized how attention to detail, adherence to standards, and a proactive mindset can contribute to both operational efficiency and product quality. Participating in this seminar contributed to my broader understanding of the physical processes

that support back-end semiconductor production and reminded me of the value of interdisciplinary learning in shaping a versatile and industry-ready professional.

[Return](#)

## Achievements

**Power BI and 7QC Tools Presentation**  
Gained hands-on experience with Microsoft Power BI as a dynamic tool for data visualization and report generation while implementing the structured problem-solving learned from 7QC Tools.

**Cybersecurity Awareness Training**  
Completed foundational training focused on cybersecurity principles, company IT policies, protection of sensitive data, and proper handling of digital resources of STMicroelectronics Inc.

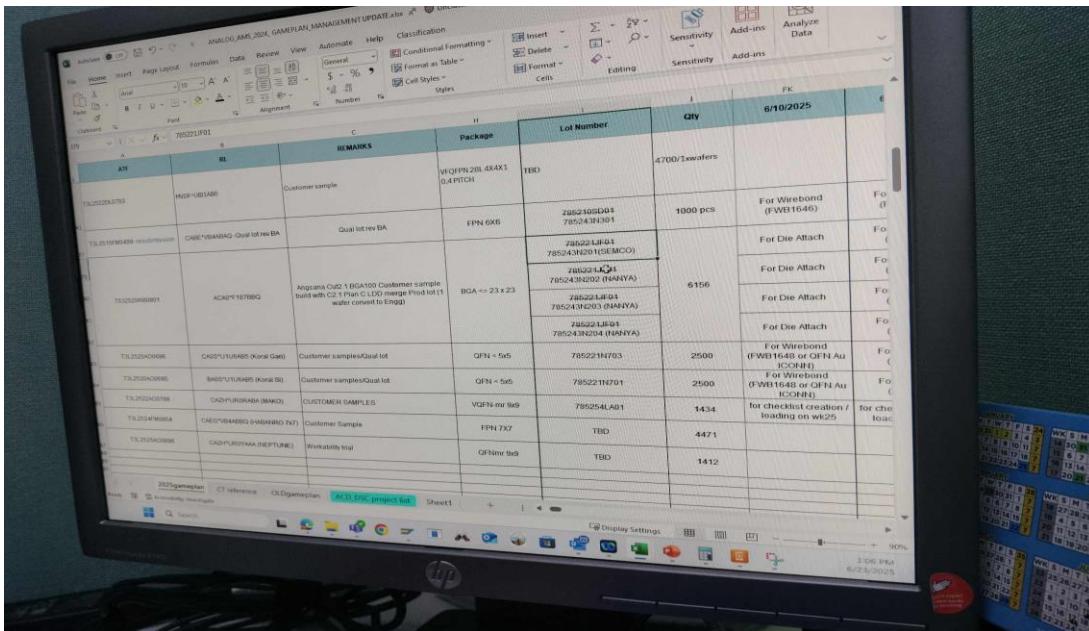
**AUROTECH Basic Blade Seminar**  
Attended a technical seminar conducted by AUROTECH Corporation focused on the fundamentals of blade technology used in wafer sawing and blade singulation process.

**Initial 240 Hours Completion**  
Successfully completed the initial 240 hours of OJT in STMicroelectronics Inc, under the New Product Introduction – Product Management Group.

*Figure 3. Achievements*

### STMicro Mapping and Merging Project

As a trainee specializing in material handling under the NPI - Project Management Group of STMicroelectronics, I had the unique opportunity to contribute actionable insights and relevant production data for the development of a software tool aimed at improving the efficiency of mapping and managing stiffeners and substrates. My exposure to real-time inventory workflows, production bottlenecks, and material allocation strategies allowed me to serve as a bridge between operational needs and software implementation. This collaboration helped ensure that the system addressed actual shopfloor requirements, enhancing its practical utility for the end users across departments.



*Figure 4. Material Data (Manual Entry)*

The web application, titled STMicro Mapping and Merging, is designed as a comprehensive platform to streamline the processes of managing stiffener and substrate mapping activities.



Figure 5. STMicro Mapping and Merging Dashboard

The software consists of six key modules, each offering specialized functionality:

**Stiffener Template** - This module allows users to create and customize stiffener templates according to specific project or production needs. Based on existing substrate dimensions or chip package sizes, operators can rapidly configure layouts without repeatedly recreating base formats. During the planning phase, I contributed to identifying key parameters such as component size, positioning offsets, and labelling standards that were essential for making the templates practical and consistent with existing production flows.

**Add Chipping Type** - This feature enables the categorization and tracking of different chipping types, facilitating better defect classification and root cause analysis. Chipping is one of the common failure modes in substrate production, and our insights from the material handling logs helped define relevant chipping categories, improving traceability and analysis downstream.

**Mapping** - The Mapping module provides an interactive and visual interface for assigning stiffeners to their respective slots or coordinates. This supports real-time monitoring of stiffener

placement and condition, allowing for error correction prior to production. My experience in staging and physical handling of materials informed the design of intuitive mapping flows and validation checks to reduce mismatch errors and handling inefficiencies.

**Image Inserter** - A productivity tool within the application, the Image Inserter automates the process of embedding multiple images into Excel files. This eliminates the need for tedious manual insertion, a common bottleneck during documentation or quality reporting. This feature is particularly useful for failure analysis teams who need to attach visual references to their defect reports or lot histories.

**Excel Merger** - This module consolidates multiple Excel files into a single dataset, providing a streamlined process for data aggregation and reporting. In previous manual practices, engineers had to merge performance logs or inspection summaries by hand. The automation here allows the quality, engineering, and logistics teams to focus more on analysis rather than data preparation.

## Synthesis of the Practicum Engagement

### Learnings

My practicum experience at STMicroelectronics Inc. – Calamba presented a dynamic and highly technical learning environment that exposed me to the inner workings of the semiconductor manufacturing process. As a Computer Science student entering a field traditionally dominated by engineering expertise, I encountered many unfamiliar terms, tools, and workflows. However, this challenge became a catalyst for growth.

I was introduced to the full scope of the New Product Introduction (NPI) process, where I observed how new semiconductor products are launched through structured phases:

Initialization, Planning, Execution, and Closure. This framework, supported by milestone-based progression such as OK2VAL, OK2QUAL, and OK2PROD, ensured that each product line met stringent quality, cost, and delivery expectations before transitioning to mass production. I gained practical exposure to how Engineering Validation Reports (EVR) and Chip-Package Interaction (CPI) studies contribute to early failure detection and product reliability critical concepts in high-volume semiconductor release.

Moreover, I participated in inventory control and lot tracking activities, reinforcing the importance of material traceability, runcard documentation, and assembly history logging. I learned how these systems protect product integrity and support customer audits, especially when managing tens of thousands of device units in parallel. I also became familiar with the Back-End Assembly and Test (BEAT) environment, where processes like wafer sawing, die attach, and wire bonding are executed with micron-level precision to ensure package performance. While I was not tasked with operating these machines directly, shadowing engineers and documenting checklist requirements gave me insight into the mechanical and thermal tolerances essential to successful packaging.

Using tools such as the Keyence VHX-7000, Olympus MX51, and MIT-LH2000i, I learned the fundamentals of failure analysis, substrate inspection, and optical measurement, which are critical in quality assurance. These activities not only taught me how to identify defects and verify assemblies but also demonstrated how physical inspection complements digital traceability systems in safeguarding production quality.

## **Realizations**

One of the most profound realizations I gained during this practicum was the value of interdisciplinary collaboration. Coming from a Computer Science background, I initially felt like an outsider in a world of materials science, microfabrication, and reliability engineering.

However, over time, I came to appreciate that my perspective offered unique contributions particularly in areas involving digital documentation, system logic, and structured process analysis.

By actively listening to my mentors and seeking feedback, I was able to adapt, learn, and perform with confidence in a highly technical environment. I realized that technical proficiency alone is not enough; qualities such as adaptability, curiosity, and the ability to communicate across roles and functions are equally critical to succeeding in complex organizations. These soft skills sharpened through regular interaction with engineers, technicians, and managers will undoubtedly support my future growth, regardless of my field of specialization.

More importantly, this experience made me realize that I do not have to limit my career to roles that are purely software-based. There exists a wide range of hybrid opportunities at the intersection of hardware, systems engineering, manufacturing operations, and data management areas where someone with a Computer Science background can thrive by supporting automation, process optimization, or digital transformation. STMicroelectronics showed me that a flexible, cross-disciplinary skill set can unlock new and unexpected career paths.

Lastly, the human connection I formed with fellow trainees and company personnel was equally rewarding. Through our shared challenges and daily responsibilities, I developed genuine camaraderie with other interns and a strong sense of belonging within the work culture. Learning from the experiences of others, exchanging advice, and celebrating small milestones together created a positive and collaborative atmosphere that made the practicum both enjoyable and meaningful.

## **Conclusion**

Overall, my training experience at STMicroelectronics was both technically enriching and personally transformative. I entered the company unsure of how my Computer Science background would fit into a manufacturing environment and left with a renewed sense of direction, equipped with real-world insight into how digital and physical systems come together in semiconductor production.

The exposure to the structured NPI process taught me how important it is to maintain quality, traceability, and risk management in fast-paced industrial operations. The tasks I performed from inventory tracking and inspection assistance to checklist verification helped me understand the critical importance of precision, accountability, and teamwork in delivering reliable products to global markets.

More importantly, this engagement broadened my career perspective. It showed me that my technical foundation, combined with the adaptability and collaborative mindset I developed during my stay, can open doors to roles beyond traditional software development whether in operations, automation, quality systems, or technical project management.

The relationships I built with my mentors, fellow trainees, and ST employees left a lasting impact, and the camaraderie we shared reminded me that professional growth is not only about learning new skills, but also about growing with people who share your goals and values.

This practicum engagement has strengthened both my competence and character. As I move forward, I am now more confident in navigating multidisciplinary environments and embracing opportunities that push me beyond my comfort zone all while bringing the

perspective of a Computer Science professional who understands the value of integration, structure, and human connection in the world of technology.

## Appendices

### Appendix A Competency-Based CV

# Vincent Luis R. Nueva España

09455033253 - vlnuevaespana@gmail.com - vlnuevaespana@live.mci.edu.ph  
B5 L5 Hongkong Village, Banaybanay, Cabuyao City, Laguna

#### BSCS 4<sup>TH</sup> YEAR STUDENT - DATA ANALYST

Detailed-oriented Computer Science student and Software Developer with a strong foundation in medical research, data analysis, and AI-driven solutions. Experienced in developing web applications, embedded systems, and health-focused technology, optimizing user experience and enabling data-driven decision-making. Proficient in Python, C/C++, SQL, and cloud-based technologies, with hands-on experience integrating LLMs and Raspberry Pi for innovative healthcare applications. Adept at problem-solving, technical research, and report writing, with a commitment to leveraging technology to enhance efficiency and improve real-world solutions. Currently seeking opportunities in software development, data analytics, and health informatics, where I can contribute my skills to drive impactful innovations.

#### KEY COMPETENCIES

Collaboration & Teamwork	Project Management	Attention to Detail
Data-driven strategic planning	Report writing and presenting	Proactive and self-motivated
Decision-Making	Excellent communication skills	Exceptional organisational skills
Problem-Solving & Analytical Thinking	Strong interpersonal skills	Time Management

#### PORTFOLIO

##### • MMCL Equipment Borrowing System

A university-based platform that streamlines the borrowing, tracking, and management of equipment loans. The system enables students and faculty to request, log, and monitor borrowed items, ensuring accountability, efficient inventory management, and proper usage tracking. It also incorporates automated penalties for damages and late returns, promoting responsible handling of university assets. Human-Computer Interaction (HCI) principles and UI/UX design played a crucial role in the development of this system, ensuring an intuitive and user-friendly experience for seamless navigation and accessibility.

##### • Artificial Intelligence Nutrition Assistant

Developed an AI-powered BMI assessment and health recommendation system aimed at enhancing nutritional literacy and proactive health management within academic and administrative communities. The project addresses healthcare challenges in the Philippines, by leveraging data-driven innovations like wearable technology and electronic health records. Unlike traditional BMI calculators that require manual input and lack comprehensive health metrics, this system integrates automated BMI tracking and personalized nutrition guidance via Computer Vision and Machine Learning. Implemented at Mapúa Malayan Colleges Laguna, the kiosk provides a more accessible, accurate, and holistic approach to preventive healthcare, bridging gaps in medical accessibility and wellness initiatives.

##### • NutriTrack: A Personalized Nutritional Tracking App

A mobile application for dietary monitoring and health management, enabling users to log food intake, track nutritional values, and manage key health parameters such as sugar and sodium levels. The app features a user-friendly interface for seamless data input and a comprehensive database containing nutritional information for a diverse range of foods. By integrating customized tracking features and health analytics, the app empowers users to maintain a healthier lifestyle through data-driven insights and proactive weight management strategies. NutriTrack serves as both a food diary and a personalized tracking tool, promoting informed decision-making regarding dietary habits.

##### • Job Pile: Job Portal Management System

Designed to optimize the recruitment process, this comprehensive management system seamlessly connects companies with qualified talent. The system allows applicants to upload personal information, search for jobs, and apply to positions, while employers can filter candidates, review applications, and communicate with potential hires. Key features include a searchable job database, applicant tracking system, company profile browsing, secure messaging, and an integrated help desk.

#### EDUCATION & CERTIFICATIONS

Bachelor of Science in Computer Science
Mapúa Malayan Colleges Laguna
Humanities and Social Sciences
Mapúa Malayan Colleges Laguna
CompTIA IT Fundamentals (ITF+)
CompTIA
TOEIC-certified English proficiency
Princeton Assessments and Training Inc.

#### REFERENCES

Khrisian Kikuchi
College Dean at Mapúa Malayan Colleges Laguna
MJ Gnilo
College Professor at Mapúa Malayan Colleges Laguna
Jona Ebron
CS Program Chair at Mapúa Malayan Colleges Laguna

# VINCENT LUIS R. NUEVA ESPAÑA

## DATA ANALYST

<b>CONTACT</b> 09455033253 vlnuevaespana@gmail.com 85 LS Hongkong Village, Banaybanay, Cabuyao City, Laguna www.linkedin.com/in/vincent-luis-nueva-espana-955085325	<b>PROFILE SUMMARY</b> <p>Detailed-oriented Computer Science student and Software Developer with a passion for medical research and data analysis. Skilled in developing web applications that enhance user experience and enable data-driven decision-making. Proficient in problem-solving and enthusiastic about leveraging technology to address real-world challenges. Currently seeking opportunities to apply my expertise in software development, data analytics, and research-driven innovation to deliver impactful solutions.</p>
<b>EDUCATION</b>  2016-2018 <u>MAPUA MALAYAN COLLEGES LAGUNA</u> <ul style="list-style-type: none"><li>Humanities and Social Sciences</li></ul> 2021-Present <u>MAPUA MALAYAN COLLEGES LAGUNA</u> <ul style="list-style-type: none"><li>Bachelor of Science in Computer Science</li></ul>	<b>WORK EXPERIENCE</b>  <u>Rematch Lounge</u> 2017 - 2019 Store Operations Assistant <ul style="list-style-type: none"><li>Maintained a well-organized and welcoming lounge environment by following 5S principles to optimize cleanliness, efficiency, and accessibility.</li><li>Provided technical support for gaming setups, troubleshooting hardware and software issues to enhance the customer experience.</li><li>Managed cashiering duties, processed transactions efficiently, and provided exceptional customer service, ensuring a seamless customer experience.</li></ul>
<b>SKILLS</b> <ul style="list-style-type: none"><li>Decision-Making</li><li>Public Relations</li><li>Communication</li><li>Project Management</li><li>Documentation Management</li><li>Collaboration &amp; Teamwork</li><li>Adaptability &amp; Continuous Learning</li></ul>	<b>PROJECTS</b>  <u>MMCL Equipment Borrowing System</u> Is a university-based platform designed to streamline the process of borrowing, tracking, and managing equipment loans. It allows students and faculty to borrow and log items, ensuring accountability and efficient inventory management. <u>Artificial Intelligence Nutrition Assistant</u> A.I.N.A is a kiosk that provides an automated, user-friendly solution for measuring BMI, eliminating the need for manual input through enhancing accessibility and accuracy by leveraging computer vision and machine learning. Equipped with an AI-powered chat recommendation system, it offers personalized health insights based on BMI classifications, dietary preferences, and lifestyle factors.
<b>LANGUAGES</b> <ul style="list-style-type: none"><li>English: Fluent</li><li>Tagalog: Native</li><li>Japanese: Basics</li></ul>	<b>ACHIEVEMENTS</b> <ul style="list-style-type: none"><li>Graduated as an S5 in Citizen Army Training (C.A.T.)</li><li>Senior High School Academic Achiever with High Honors</li><li>Former Treasurer, Junior Philippine Computer Society (JPCS)</li><li>CompTIA IT Fundamentals (ITF+) Certified</li><li>TOEIC-certified English proficiency</li></ul>
<b>INTERESTS</b> <ul style="list-style-type: none"><li>Technical Writing &amp; Research</li><li>Digital Health &amp; Healthcare</li><li>Human-Computer Interaction</li></ul>	

## Appendix B

### Practicum Acceptance



**MAPUA**  
MALAYAN COLLEGES  
LAGUNA

REVISION NO.: 00  
REVISION DATE: May 10, 2016

#### PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

##### IMPORTANT INFORMATION

- STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.
- ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.
- SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.

NAME OF STUDENT	<i>Nueva España, Vincent Luis R.</i>	STUDENT NUMBER	<i>8018135626</i>
COURSE CODE	<i>CS199F</i>	SY/TERM ENROLLED	<i>3rd Term</i>

This is to certify that Vincent Luis R. Nueva España (name of student-trainee) has been accepted for practicum at ST Microelectronics, Inc. - Science Park II, Calamba, Laguna (name and address of establishment) and will be attached to the New Product Introduction department/s for a minimum of, but not limited to 324 hours. Training will commence on April 26, 2025 and is expected to end on July 31, 2025. Attached is the list of requirements.

COMPANY REPRESENTATIVE	
<i>Victor Jordan</i> Signature over Printed Name	<i>SC MANAGER - NPI PMG HEAD</i> Official Designation
<i>New Product Introduction</i> Department	<i>victor.l.jordan@st.com</i> Email and Contact Number/s

NOTED BY	
<i>Janelle G. Stom</i> Signature over printed name of Practicum Coordinator	<u>May 06 2025</u> Date

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR

FORM OVPA 030B

THIS FORM IS AVAILABLE AT THE OVPA.



**MAPUA**  
MALAYAN COLLEGES  
LAGUNA

REVISION NO.: 00  
REVISION DATE: May 10, 2016

#### PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

##### IMPORTANT INFORMATION

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- ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.
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NAME OF STUDENT	<i>Nueva España, Vincent Luis R.</i>	STUDENT NUMBER	<i>8018135626</i>
COURSE CODE	<i>CS199F</i>	SY/TERM ENROLLED	<i>3rd Term</i>

This is to certify that Vincent Luis R. Nueva España (name of student-trainee) has been accepted for practicum at ST Microelectronics, Inc. - Science Park II, Calamba, Laguna (name and address of establishment) and will be attached to the New Product Introduction department/s for a minimum of, but not limited to 324 hours. Training will commence on April 26, 2025 and is expected to end on July 31, 2025. Attached is the list of requirements.

COMPANY REPRESENTATIVE	
<i>Victor Jordan</i> Signature over Printed Name	<i>SC MANAGER - NPI PMG HEAD</i> Official Designation
<i>New Product Introduction</i> Department	<i>victor.l.jordan@st.com</i> Email and Contact Number/s

NOTED BY	
<i>Janelle G. Stom</i> Signature over printed name of Practicum Coordinator	<u>May 06 2025</u> Date

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR

FORM OVPA 030B

THIS FORM IS AVAILABLE AT THE OVPA.

## Appendix C Liability Waver



REVISION NO.: 00  
REVISION DATE: May 10, 2016

### STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

#### IMPORTANT INFORMATION

- THIS FORM IS TO BE ACCOMPLISHED AND SUBMITTED BY STUDENT TRAINEE TO THE PRACTICUM ADVISER BEFORE STARTING THE PRACTICUM.
- READ AND UNDERSTAND THE PROVISIONS OF THIS AGREEMENT AND WAIVER.
- ENSURE THAT ALL SIGNATORIES SIGN THE FORM.

I, Vincent Luis R. Nuera España, and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL"), do hereby voluntarily undergo on-the-job training at STMicroelectronics, inc., hereinafter referred to as the "Host Company", located at Light Industry and Science Park II, Calamba under the following terms and conditions:

- a. That the practicum training will commence on April 23, 2015 and ends on July 31, 2015 and will have to complete a minimum of 284 hours required for the on-the-job training;
- b. That I shall observe proper decorum and act professionally at all times and abide by the Company's rules and regulations and comply with those imposed for the training program, otherwise, I shall be excluded from further participation;
- c. That in the course of my training program, I may have access to information which may be of confidential in nature and proprietary to the Company, for which I may be required to execute a confidentiality and non-disclosure agreement as a prerequisite to my participation in the training program;
- d. That the time I will spend on the training program in the completion of my on-the-job training requirements will not and should not be interpreted or construed as working hours and should be regarded as non-compensable. Provided that, the Company may, as a unilateral act of liberality or generosity on their part, provide me with meal, travel, transportation allowances, accommodations, etc.;
- e. That I fully understand that notwithstanding the allowances enumerated in the preceding section which I may receive, there exists no labor-management and/or employer/employee relationship between me and the Company where I will undergo my training;
- f. That I shall exercise due care and diligence in the tasks assigned to me and personally be made answerable for any and all liabilities for damage to property or injury to third person, which may be occasioned by my intentional or negligent acts during the course of my on-the-job training;
- g. That I shall likewise hold the Host Company and MCL free and harmless from any and all liability and responsibility for any sickness or injury to myself and third parties and damage to property which I may sustain and/or may occur at any time during the training program, including time spent in traveling to and from any and all premises and locations where I may be required to go to as part of my training program;
- h. That the Company reserves the right to discontinue my training on reasonable grounds upon written notice to MCL and myself. Additionally, in the event my training program is discontinued for reasons attributable only to myself, I may be made to reimburse the Host Company for any/all the allowances, stipends, etc., which I may have received from them during and prior to the termination of my training program;
- i. That in addition to my liability under section g and for the pre-termination of my training program provided for under section h hereof, I may be subjected further to disciplinary action in accordance with the school's student manual and/or be a ground for disqualification from graduation;

Signed on this 21 day of April.

Ma. Ana R. Nuera España

Signature over printed name of **Student Trainee**

#### WITH OUR CONSENT:

Signature over printed name of **Parent/Guardian**  
(for minors only)

#### NOTED BY:

Dorelyn R. Ebros  
Printed Name and Signature of **Practicum Adviser/ Coordinator**

Victor Silvana  
Printed Name and Signature of **Host Company Representative**

## Appendix D

### Training Plan

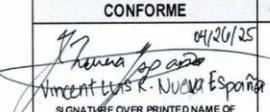
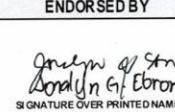


REVISION NO.: 00  
REVISION DATE: May 10, 2016

#### TRAINING PLAN

NAME	Vincent Luis R. Nueva Espana	COURSE CODE	CS199F
PROGRAM & STUDENT NO.	BSCS-2018135626	COURSE TITLE	CS Practicum

<b>STUDENT OUTCOMES</b>	
<p>1. Demonstrates good influences on people in the organization by accomplishing tasks effectively and efficiently.</p> <p>2. Recognize the need for, and an ability to engage in continuing professional development.</p> <p>3. Propose and present on automation system tailored to the designated department, to serve as the trainee's final output for their practicum requirement.</p>	
<b>AREAS / PHASES OF TRAINING AND TIME ALLOTMENT</b>	
<p>See attached Training Plan from ST Microelectronics Human Resource.</p>	
<b>EVALUATION GUIDELINES &amp; COURSE OUTCOMES</b>	
<b>DEMONSTRATION OF SOFT SKILLS (40%)</b> <p><b>KEY AREAS</b></p> <p><b>COMMUNICATION SKILLS (20%)</b></p> <ul style="list-style-type: none"> <li>Relate to co-trainees/supervisors terminologies and rules</li> <li>Recite procedures and instructions needed for the tasks</li> <li>Identify and describe safety signs and symbols</li> <li>Ask critical questions related to the tasks</li> <li>Produce well-written regular and incident reports</li> <li>Prepares and presents reports using Information and Communication Technology (ICT)</li> </ul> <p><b>PROFESSIONAL DEPARTMENT (20%)</b></p> <ul style="list-style-type: none"> <li>Observes proper grooming and attire</li> <li>Reports to work regularly on time and as necessary, even beyond prescribed working hour</li> <li>Acts according to the job description given by the company</li> <li>Willing to accept new tasks apart from the usual routine and responsibilities</li> <li>Delivers quality output on time</li> <li>Demonstrates respect for different individuals</li> </ul> <p><b>INITIATIVE (+5%)</b></p> <ul style="list-style-type: none"> <li>Volunteers to perform tasks beyond routine tasks</li> </ul>	<b>DEMONSTRATION OF TECHNICAL SKILLS (60%)</b> <p><b>KEY AREAS</b></p> <p><b>Quality of Work (30%)</b></p> <ul style="list-style-type: none"> <li><b>SKILLS (X%)</b></li> <li>&gt;Considers accuracy of work done based on expected output, its reliability, quality, standards, and delivery.</li> </ul> <p><b>Innovation and Creativity (20%)</b></p> <ul style="list-style-type: none"> <li><b>SKILLS (Y%)</b></li> <li>&gt;Suggests engineering solutions or ideas to individuals and organization on how to improve the services and quality of work.</li> </ul> <p><b>Flexibility (10%)</b></p> <ul style="list-style-type: none"> <li><b>SKILLS (Z%)</b></li> <li>&gt;Makes innovative and/or productive contributions.</li> </ul> <p><b>Innovation and Creativity (20%)</b></p> <ul style="list-style-type: none"> <li>&gt;Shows flexibility in the process of going through his/her task.</li> </ul> <p><b>INITIATIVE (+5%)</b></p> <ul style="list-style-type: none"> <li>Volunteers to perform tasks beyond routine tasks</li> </ul>

CONFORME	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY
 04/26/25 Vincent Luis R. Nueva Espana <small>SIGNATURE OVER PRINTED NAME OF STUDENT / DATE</small>	<small>SIGNATURE OVER PRINTED NAME OF PARENT OR GUARDIAN / DATE</small>	 <small>SIGNATURE OVER PRINTED NAME OF PRACTICUM SUPERVISOR / DATE</small>	 <small>SIGNATURE OVER PRINTED NAME OF PRACTICUM ADVISER / DATE</small>	 <small>SIGNATURE OVER PRINTED NAME OF PROGRAM CHAIR / DATE</small>

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## Appendix E

# Complete Daily Journal



**MAPÚA**  
MALAYAN COLLEGES  
LAGUNA

REVISION NO.: 00  
REVISION DATE: May 10, 2016

## DAILY JOURNAL

## **IMPORTANT INFORMATION**

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DATE	22-04-2025	AREA ASSIGNMENT	Diamond Hall
TASK	First Day Orientation	SHIFT/TIME	8:00 am - 5:30 am

First day was a basic orientation, we were welcomed and oriented on the basic do's and don'ts and also the company's mission and vision. This was also the day for signing documents. We were also given some apparel that was required to wear inside the building and certain production areas.

  
Julia Jones  
TRAINEE'S SIGNATURE

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DATE	23-04-2025	AREA ASSIGNMENT	Onyx Room / Ruby Room
TASK	Power BI / FQC Tools Training	SHIFT/TIME	8:00am - 5:30am

Since we were off trains, we were also taught by the HR department about power BI and QC tools. It was basically a refresher course since the things/lessons presented was already covered by some courses in MMCL. Things like graph and chart making and also proper visualization

Since we were out training we were also taught by the HR department about Power BI and FQC Tools. It was basically a refresher course since the things/lessons presented was already covered by some courses in MMCL. things like graph and chart making and also proper visualization

*Jenna Soto*  
TRAINEE'S SIGNATURE

TRAINEE'S SIGNATURE



## DAILY JOURNAL

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DATE	24 - 04 - 2025	AREA ASSIGNMENT	Onyx Room
TASK	Power BI & QC Tools Presentation	SHIFT/TIME	8:00 am - 5:30 pm

Today basically was presentation of what we learned from the previous session. I was partnered with Mr. Tiang sing. Overall we performed well due to previous experiences in presenting previous machine problems.

*James F. Price*  
TRAINEE'S SIGNATURE

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## DAILY JOURNAL

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DATE	04-28-2025	AREA ASSIGNMENT	Training
TASK	Orientation	SHIFT/TIME	8:00am - 5:30 pm

For the first half of the work day, we were assigned to our respective departments and senior managers. After that, we were oriented on the department's daily work process. The session included department positions, terms and abbreviations, and lastly the front-of-line and end-of-line process in production. Later that day, we were instructed to accomplish half of the basic manufacturing training. The lecture consists of SS Standard procedure and Basic (ESD) Electrostatic Discharge Awareness. It covered proper attire and basic protocols, while also explaining their Failure Models and do's and don'ts. The day didn't only consist of lectures but also an accompanying examination after every topic.

*Jewa Jparan*  
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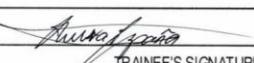
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DATE	04-29-2025	AREA ASSIGNMENT	Training
TASK	Basic Manufacturing Process and Training	SHIFT/TIME	8:00 am - 5:30 pm

Today we were required to join the other trainees on completing the Basic Manufacturing Process. These lectures contain guidelines and general production flow of STMicroelectronics' products and machines. To be more specific, the lecturer introduced us the proper mixing prevention procedure — this procedure occurs when two or more different elements are put together in one lot endorsed from one process step to another or shipped to the customer. Next are the work instructions for non-conforming lots (these are the products of STMicro) in Calamba. This encapsulates the procedure when there is an intentional or unintentional alteration of a process or their product. Basically anything that is considered non-standard. There is also the "out of control action plan" and "audit preparedness" which accompanies the previous topics. Later that day, they briefly explained how to handle customer events. The last topic covered a basic / condensed version of the actual development process flow. This also includes the raw materials down to the cleaning and packaging process. That concludes all the basic training a new trainee is expected to undergo. Tomorrow marks the official start of our assignments to our respective departments.



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DATE	04 - 30 - 2025	AREA ASSIGNMENT	UPI OPS-1 (PMG) Project Management
TASK	NPI QUALIFICATION	SHIFT/TIME	8:00 am - 5:30 pm

Today marks our first official day in our respective departments. Although, we already met our supervisors during the 28th. For the first half, we attend a department wide refresher course called "NPI Qualification Certification" — the topics felt advanced or a more detailed breakdown of the processes we learned days prior. Not only was it a breakdown of both of their front and end-of-line process, but it also included a in-depth discussion of the packaging to delivery process — not only to customer but also to various STMicro plants. In the afternoon, we participated on a weekly operations report where I was endorsed a possible final project I can present as my output for practicum requirement.

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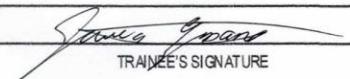
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DATE	02 - 05 - 2025	AREA ASSIGNMENT	NPI OPS I Office
TASK	Daily task familiarization	SHIFT/TIME	07:30 am - 5:30 pm

For today I was with Sir Joseph, one of the project leads. I was tasked to pickup some epoxy for one of the development process. It was a extended process of signing and processing since the warehouse is very received due to the nature of the company and its product. It was also required to transfer it to different areas. We took it from the warehouse, delurred it to the storage room then threw it out for it to be given to the technician that was assigned to the machine that needs those direct materials. After lunch, we went with main R&D to the Failure Analysis (FA) Lab where defective components or systems are analyzed to determine the root cause of failures. We were also introduced to the rooms and machines at the surrounding area. We also had the pleasure of being able to analyse and capture / log the whole process.

  
TRAINEE'S SIGNATURE



## DAILY JOURNAL

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DATE	05-05-2025	AREA ASSIGNMENT	NPI OPSI OFFICE
TASK	LQC Introduction and Line Tour	SHIFT/TIME	8:00 am - 5:30am

for this day I was with sir Rommifer, we went through the process of receiving and sending deliveries from vendors. Every delivery has a process of quality checking and processing before it gets sent to the incoming Quality Control (QC) lab. In the afternoon, I was able to engage and immerse myself with the development due to the line tour I had the pleasure of joining. It was really eye opening on seeing how advance the machines were specially how micro or minuscule the components were during that process. Another noteworthy moment was seeing how actually clean and strict the processing line was.

  
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DATE	07-05-2025	AREA ASSIGNMENT	Pre-Assembly Line
TASK	Sorting/Inventory Management Based on Expiry Status	SHIFT/TIME	8:00am - 5:30pm

In the morning, I was supervised while sorting leadframes and substrates based on their expiration dates. I separated the expired materials from the non-expired ones and organized them accordingly to help maintain storage accuracy.

Later in the afternoon, I worked on my automation system proposal for the checklist tracking process, outlining the basic requirements and design flow.

Before the end of the day, I was also tasked with transporting expired wafer rings and some wafer tapes to the kitting/inventory room for proper endorsement and handling.

Today helped me understand more about inventory protocols, proper material segregation, and how different departments coordinate during product introduction and storage. I was familiarized in navigating the building alone since this was one of the first major tasks where I was only told what to do and where to go without supervision.

A rectangular box containing a handwritten signature.

TRIANEE'S SIGNATURE

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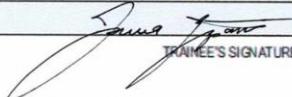
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DATE	08-05-2025	AREA ASSIGNMENT	FOL & EOL Production Lines
TASK	Detailed Tour of Production Lines	SHIFT/TIME	8:00Am - 5:30pm

Today was a highly insightful and engaging day as I was given a comprehensive tour of the various production lines within the semiconductor facility. Unlike the previous brief overviews, this tour provided a much deeper understanding of each process, its technical purpose, and its role in the overall manufacturing flow. I was accompanied in the morning by Sir J.R., who walked me through the early stages of production, including wafer preparation and die attach. He explained how seemingly minor issues, such as humidity changes or misalignments, could significantly affect yield and product quality. In the afternoon, Sir M.J. continued the tour by guiding me through the back-end processes such as wire bonding, molding, and final testing. I was introduced to several technicians and machine operators, who shared real-world examples of operational challenges and emphasized the importance of strict adherence to protocols, even during routine tasks. What stood out was how each step, no matter how small, contributes to the integrity of the final product, and how quick troubleshooting and preventive measures are crucial in maintaining productivity. We also had a few laughs and jokes to help humanize or break the ice with each other.

This experience not only expanded my technical understanding but also deepened my appreciation for the complexity and precision of semiconductor manufacturing. But, I would also like to extend my appreciation to ma'am Ericka since she was the one who introduced me initially with all the processes our department handles.

  
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DATE	09-05-2025	AREA ASSIGNMENT	NPI Storage Room
TASK	Sorting/Inventory Management Based on Expiry Status	SHIFT/TIME	8:00am - 5:30pm

Today, I was assigned to organize and sort leadframes and substrates within the NPI storage area.

My primary objective was to separate the expired materials from those that are still within usable shelf life. This task plays a critical role in maintaining inventory accuracy, preventing production delays, and ensuring that only compliant materials are introduced into the production flow. I identified their product/material number, lot number, quantity per package, and the expiration dates. With this I was able to organize the expired and non-expired, ensuring that all expired items were removed from the active N2 cabinet I was assigned to. I also had to cross-check certain items to verify date accuracy, which required attention to detail and familiarity with the storage layout. Although this was a repetitive task, it gave me a better understanding of materials control, the importance of inventory traceability, and how physical component management ties into larger production workflows in the semiconductor industry. It also emphasized the need for a future automated system to minimize human error.



Anna T. Garcia  
TRAINEE'S SIGNATURE

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DATE	13-05-2025	AREA ASSIGNMENT	Preassembly line and storage room
TASK	NPI All around support	SHIFT/TIME	8:00 am - 5:30 pm

Today, I revisited the task of sorting and inventory leadframes, which I had previously been assigned. However, this time, I was guided through a more proper and systematic approach to the process. I learned how to identify extended shelf-life materials, how to differentiate storage based on the type of materials, and the importance of placing materials in the correct box types and designated areas within the storage room.

This more detailed orientation emphasized the importance of precision in labeling, proper segregation of components, and adherence to storage protocols that support both traceability and production efficiency. Training this deeper understanding of material handling allowed me to see how even small improvements in storage practices can help prevent delays of projects.

  
JENNIFER GOSSEN  
TRAINEE'S SIGNATURE

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DATE	14-05-2025	AREA ASSIGNMENT	Pre-assembly line
TASK	Let transaction and process	SHIFT/TIME	8:00 am - 5:30 pm

Today's focus was on understanding and observing the lot transaction process, particularly through the handling and verification of runcards - a key document used to track the movement and processing stages of production lots. I was also assigned to assist in the checking of machine process, ensuring that operations were running as expected and aligned with the recorded transactions.

In addition, I began my familiarization with the warehouse area, where I was oriented a week before on the procedures as well as proper storage and transportation protocols. Today I was tasked to handle some requests made which made me seasoned in this task.

**TRAINEE'S SIGNATURE**

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DATE	15 - 05 - 2025	AREA ASSIGNMENT	Precassembly line
TASK	NPI All around support	SHIFT/TIME	8:00am - 5:30 pm

Today, I was assigned to oversee and confirm whether the lot transaction process scheduled from the previous night had been properly executed. This task required coordination with several team members across different processing lines, allowing me to observe how communication plays a role in process continuity. Throughout the day, I was also introduced to a number of employees, operators, and technicians from various stations, which helped me gain a broader perspective of the personnel and workflows involved in the UPI production environment.

In addition, I had the opportunity to accompany several project leads, offering me valuable insight into their responsibilities and decision making processes during routine checks and assessments. I dedicated time to working on my project proposal, which is aligned with the course outcomes for my practicum.

  
TRAINEE'S SIGNATURE

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DATE	16 - 05 - 2025	AREA ASSIGNMENT	Training Room
TASK	Basic Dicing Blade seminar	SHIFT/TIME	8:00am - 5:30pm

Today, I participated in a Basic Dicing Blade Seminar facilitated by Autotech, which focused on the fundamental concepts, handling and proper usage of dicing blades in semiconductor manufacturing. The seminar covered key topics such as blade types, cutting parameter, troubleshooting common issues and safety protocols. Following the session, we were required to take a post-certification examination to assess our understanding of material.

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~~Trainee's Signature~~

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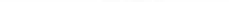
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DATE	19 - 05 - 2025	AREA ASSIGNMENT	NPI Storage Room & Production Floors
TASK	Independent Handling of Various Tasks	SHIFT/TIME	7:30 am - 5:30 pm

Today marked a culmination of the knowledge, skills, and experience I've gained throughout my practicum. I was entrusted to carry out my assigned tasks independently, without direct supervision or detailed guidelines, reflecting the confidence the team now has in my capabilities. I was assigned to perform standard material handling, receiving, and transporting to various locations in the bridging and the NPI storage area - where I also did inventory checks, sorting, and documentation of leadframes, substrates, and wafers, all while coordinating with various personnel across the production line. I also had to submit and endorse sample material to the FAI lab.

  
Trainee's Signature

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DATE	20-05-2025	AREA ASSIGNMENT	NPI Storage Room
TASK	Inventory Management with Enhanced Documentation	SHIFT/TIME	7:40 am - 5:30 pm

Today, I was assigned to continue with inventory tasks, focusing on the verification and organization of stored materials. Unlike previous sessions, today's tasks included the addition of specific remarks and the identification of sub-locations within the storage area for each material. This refinement in documentation ensures greater accuracy better retrieval efficiency during production operations. By noting sublocations and condition based remarks, the inventory system becomes more detailed and reliable - especially for high-volume components such as leadframes and substrates. To follow-up from yesterday, I had to visit the Pre-assy line this morning in order to inquire about yesterday's lot transaction. It should have moved today from Laser Grooving to Wafer sawing, but the operator encountered a problem with the machine resulting on the test run to be halt due to the program needing to undergo a manual download process. After the said update, the transaction and moving process should resume regularly.

*James J. Scott*  
TRAINEE'S SIGNATURE

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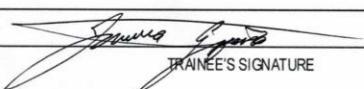
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DATE	21-05-2025	AREA ASSIGNMENT	End of Line Process
TASK	Learn and Observe EOL Procedures	SHIFT/TIME	8:00 am - 5:30 pm

Today, I focused on observing and learning key end-of-line processes, specifically laser marking, dot marking, and mold compounding. I had the opportunity to be guided by Sir Jerome in operating and maintaining the laser marking machine (EZM 031). While I was not the main trainee, I was fully engaged through active observation and by asking technical questions to better understand the process.

A key takeaway was learning how to handle non-ideal conditions such as warped or imperfect substrates, and the operational considerations necessary to proceed without damaging the machine and incoming units. These practical insights highlighted the importance of adaptability and technical discernment in actual production scenarios.

Additionally, I briefly visited the dot marking area, where I was able to meet and interact with some of the employees/operators; it was a pleasure to engage with some of them - the experience was very delightful. Before ending the day, I also took time to observe a portion of the mold compounding process at a station assigned to my friend who is also a fellow STMicro trainee.

  
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DATE	22-05-2025	AREA ASSIGNMENT	Production floor and NPI storage room
TASK	Peer process observation and 5s implementation	SHIFT/TIME	8:00am - 5:30pm

Yesterday was relatively uneventful in terms of new assignments, but it offered valuable insight through peer observation. I spent a portion of the day observing other trainees, asking about their individual daily responsibilities and the underlying process involved in their tasks. This activity helped me further understand the broader workflow across different departments.

In the afternoon, I focused heavily on implementing the 5S practice in the NPI storage area. This involved organizing materials, ensuring cleanliness, and sorting/recycling. Though less technical, this task underscored the importance of workplace discipline and efficiency.

  
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DATE	23-05-2025	AREA ASSIGNMENT	VPI Storage Room & Pre-assy Area
TASK	5S implementation and lot transaction	SHIFT/TIME	8:00am - 5:30pm

Today's responsibilities were centred on 55 activities, with a particular focus on the segregation and organization of empty boxes containing wafer remnants. I was tasked with ensuring these materials were properly grouped based on date and lot information allowing for future reference.

In parallel, I was assigned to verify the accuracy of lot transactions by cross-checking the endorsed checklist against actual activities. This required a detailed review to confirm that the operators were following the documented instructions written on the checklist.

  
Anna Lopez  
TRNEE'S SIGNATURE

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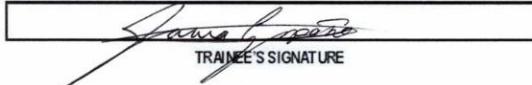
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DATE	05 - 24 - 2025	AREA ASSIGNMENT	Pre-assy / Die Bond Area
TASK	Checklist management & Final Presentation	SHIFT/TIME	8:00 am - 5:30 pm

The day coincided with an internal audit, which limited our ability to directly handle ongoing issues that emerged during the weekend shift. One major concern involved the discrepancy related to a lot we had endorsed a week prior. The original checklist attached to the lot had gone missing, inadvertently resulting in a creation of an entirely new lot. This incident caused a significant delay in the process flow.

To resolve the issue we had to trace each procedure backwards to locate the original lots. Each one had to be manually replaced, and provided with a new checklist. Additionally, corrections were made to ensure that each affected lot followed the proper subsequent process. Despite the constraints of the audit, our team remained focused on addressing the discrepancy methodically and ensuring compliance moving forward.

  
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DATE	125 - 27 - 2025	AREA ASSIGNMENT	FOL to EOL
TASK	Manual Process Monitoring	SHIFT/TIME	8:00am - 5:30pm

Task involved manually monitoring the progression of lots by coordinating closely with the operators assigned to each station. Instead of relying solely on system updates or automated tracking, I conducted in-person check-ins to verify that each process was proceeding as intended.

By ongoing and status checking, I was able to better understand the practical flow of production and gain insight into how certain process delays or adjustments are managed.

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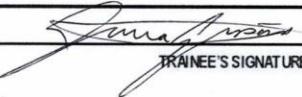
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DATE	2025 - 28 - 2025	AREA ASSIGNMENT	EOL Area
TASK	Mold Process Observation	SHIFT/TIME	8:00AM - 5:30PM

I was a bit free that day so I had the opportunity to visit the molding process within the EOL area, accompanied by a fellow trainee. This observational assignment allowed us to better understand the role of the different molding style.

We observed the step-by-step procedure carried out by the operators, including mold preparation, material handling, and post-mold inspection. Particular attention was given on how to operate the machine and its set parameters.



Trainee's Signature



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MALAYAN COLLEGES  
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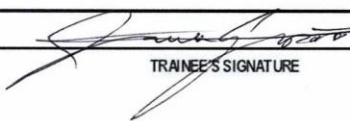
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DATE	06 - 02 - 2025	AREA ASSIGNMENT	NPI STORAGE ROOM
TASK	CS Implementation on wafer Remnants	SHIFT/TIME	8:00am - 5:30pm

With most of the office attending a scheduled meeting, I was tasked with supporting the CS implementation by conducting an inventory of wafer remnants. I began by sorting the wafer remnants according to their respective production years, ensuring clear categorization for easier reference and retrieval. Following this, I inspected each item to assess whether it remained usable for future lots or should be placed and tagged for proper disposal.

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DATE	03 - 06 - 2025	AREA ASSIGNMENT	NPI Storage Room & Pre-assy Area
TASK	SS and Checklist / Inventory Management	SHIFT/TIME	8:00am - 5:30pm

In the morning, I continued the SS implementation task involving the remaining wafer remnants from the previous day. In the morning, I completed the physical sorting process, classifying each batch based on year and usability. Usable remnants were either stored properly or transferred to the Kitting area for future use, while obsolete materials were prepared for proper disposal.

In the afternoon, I updated the inventory records to reflect the final status of each batch. This ensured accurate documentation and alignment between physical materials and system data.

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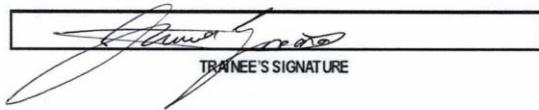
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DATE	010-04-2025	AREA ASSIGNMENT	FOL 1 DE Bond Area
TASK	Lot and Wafer Retrieval	SHIFT/TIME	8:30 am - 5:30 pm

I was assigned to assist with wafer and lot retrieval tasks to support ongoing production activities. The task involved coordinating with line personnel and referencing system records to locate specific wafer batches and test lots that were required for immediate processing or re-evaluation.

I navigated through storage cabinets and designated holding areas, ensuring that each retrieved lot was properly labeled and still within acceptable storage conditions.

James L. Jones  
TRAINEE'S SIGNATURE

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DATE	06 - 09 - 2025	AREA ASSIGNMENT	PA Lab
TASK	Optical inspection Assistance	SHIFT/TIME	8:00am - 5:30pm

I was assigned to assist in the optical inspection of dies at the FA lab. This task involved closely observing and supporting the visual evaluation of die samples under a high-magnification microscope to identify potential defects such as cracks, voids, contaminants or surface irregularities. Working alongside an experienced analyst, I helped prepare the samples, document the findings, and used the machine Olympus MX51.

*Luis Gómez*  
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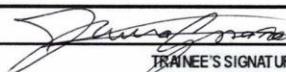
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DATE	11-010 - 2021	AREA ASSIGNMENT	FOL to EOL Area
TASK	Lot and wafer Retrieval	SHIFT/TIME	8:30 am - 5:30 pm

I was once again tasked with retrieving specific wafer batches and test lots needed for production continuity. After locating the required materials from designated storage areas. In addition to that, I physically transferred some lots from FOL to EOL. This involved careful coordination with process owners to ensure that each lot was properly endorsed and that the transporter was safe.

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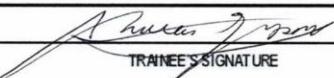
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DATE	110 - 050 - 2025	AREA ASSIGNMENT	Withdrawal and EDL Area
TASK	Withdrawal Area and Lot Transaction	SHIFT/TIME	8:00 am - 5:30 pm

Today I started the day with orders from Project Leads and Managers to receive various package ranging from external raw materials to huge quantities of rebar straight's and lead frames requiring them to be transferred using a pushcart. Those equipments are valuable assets to the company, that's why I have to adhere with their strict rules when transporting materials.

In the afternoon, I was tasked to handle lot transactions from EDL to EDL. It was my first time directly supervising the process and timeline alone. I got the chance to enter areas that I wasn't introduced to.

  
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DATE	19 - 06 - 2025	AREA ASSIGNMENT	DB 1 OFFICE
TASK	Final project confirmation	SHIFT/TIME	8:00am - 1:30 pm

I coordinated with the department to finalize and confirm the details of my internship project. This included aligning the project scope, objectives, and expected deliverables with my temporary supervisors to ensure it met both learning goals and departmental relevance. There were some side tasks accomplished during the afternoon session.

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DATE	23 - 06 - 2025	AREA ASSIGNMENT	Withdrawal ideas and Production Line
TASK	Receiving and checklist management	SHIFT/TIME	8:00am - 5:30 pm

similar to my previous journal logs, the day started with withdrawing packages and materials for people and managers in our office. I was able to familiarize myself with the various companies/vendors that ST orders from. Later that afternoon, I was asked to transfer and handle various checklists from different projects. It was overwhelming since unlike a regular employee, that is assigned to certain processes or machines; I was assigned to overlook or help manage various areas.

  
Diana Springer  
TRAINEE'S SIGNATURE



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DATE	24 - Oct - 2025	AREA ASSIGNMENT	Research Lab
TASK	Sample Preparation	SHIFT/TIME	8:30 am - 5:30 pm

I was assigned to the research lab to assist with sample preparation. I supported the handling of test materials by labeling, organizing, and preparing them for upcoming procedures. Alongside this, I helped update the internal database by encoding measured die/strip data. I was mainly there for documentation and am still observing the whole process.

*James G. Jordan*  
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DATE	25-06 - 2025	AREA ASSIGNMENT	Research Lab
TASK	3rd Optical / inspection	SHIFT/TIME	8:30 am - 5: 30 pm

I responded to a request from Sir Jerome to assist with an optical inspection task involving various substrate strips. Using the Keyence VHX-7000 digital microscope, I conducted a high-resolution surface evaluations to identify any visual defects or abnormalities across different sample types. The process required adjusting magnification settings, capturing clear image documentation. Handling the machine was a fun experience since I got to experience how detailed and convoluted its features.

   
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DATE	26- 06 - 2025	AREA ASSIGNMENT	FOL / Pre-assy Area
TASK	Checklist Management & Inventory Review	SHIFT/TIME	8:00am - 12:30pm

I reported for half a day to carry out routine checklist management and assist with inventory tracking. My tasks included reviewing and updating existing checklists to ensure they were properly filled-out and aligned with current lot statuses. I also performed a partial inventory review, cross-checking physical materials with recorded data for accuracy.

Despite my shortened schedule due to not feeling well, I ensured that all immediate documentation responsibilities were addressed before timing out for today.

[Handwritten signature]

TRINEE'S SIGNATURE



## DAILY JOURNAL

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**IMPORTANT INFORMATION**

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
  - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
  - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	June 30 - July 4, 2025	AREA ASSIGNMENT	NPI Office
TASK	Final Sys. Integ., Module Testing, Documentation and Material Delivery	SHIFT/TIME	8:00 am - 5:30 pm

During this week, I decided to collaborate with other NPL - cs students / trainers. I provided them with data at know hows about material handling. The culmination of our efforts represented the integration of all previous weeks' individual contributions, leading to a fully functional prototype aligned with the department's expectations. Much of the time was spent testing and validating some recently added modules. By the end of the week, we tried briefing some staff to prepare for documentation and mock presentations in the following weeks. Also performed a lot of side deliveries since it's a start of a new month. Summary:

- Finalized project modules
  - Conducted testing and system modules.
  - Refined documentations
  - Mentor consultation and small adjustments
  - Material handling

*Jaworski*  
Jaworski  
TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPAA 030G

THIS FORM IS AVAILABLE AT THE QVPAA



DAILY JOURNAL

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**IMPORTANT INFORMATION**

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
  - SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
  - HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 7 - July 11, 2025	AREA ASSIGNMENT	NPA Office - FOL and EOL areas - R
TASK	Routine Monitoring, Meetings, Final Report Outlining	SHIFT/TIME	8:00am - 5:30pm

This week was slower than the activities done last week. + served as a transition period following the culmination of our main project and training plan. Most days were spent performing routine tasks, such as data updates, responding to project lead queries. also attended several meetings and celebrations of achieving project milestones. The slower pace provided an opportunity to reflect on the technical and collaborative experiences I had gained, while also giving short time for my final presentation.

- Attended team meetings
  - Daily Routing and Minor Documentation
  - Prepared Materials for final report

*Suzanne G. Watanabe*  
TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPAA 030G

THIS FORM IS AVAILABLE AT THE OVPA



## DAILY JOURNAL

### IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
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DATE	July 14 - July 19, 2025	AREA ASSIGNMENT	Ruby room - NPI office
TASK	Final Narrative Presentation	SHIFT/TIME	8:00am - 5:30pm

As the final week of my practicum approached, my focus shifted entirely toward the preparation and delivery of my final presentation. I dedicated most of my time to writing, refining, and organizing my practicum report, ensuring that every section clearly reflected the breadth of my experiences, technical competencies, and contributions to the department. I also had the opportunity to rehearse and attend a mock presentation with the help of my project leads before presenting to the whole NPI department. I was able to appreciate the presentations of my co-trainees and I had a fun time presenting my report. I presented and thanked everyone in attendance. This week marked the official conclusion of my internship duties, and it served as a gratifying closure to my journey at Microelectronics.

#### Summary:

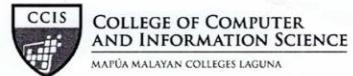
- Completed and finished my practicum report.
- Prepared and rehearsed the final presentation.
- Delivered the final presentation to the NPI department.
- Received valuable feedback and recognition.
- Successfully concluded practicum responsibilities.



TRAINEE'S SIGNATURE

## Appendix F

### Sample Endorsement Letter



26 March 2025

**MR. ROMULUS DACARA**  
Human Resources, TDK Philippines Corporation  
119 E Science Ave., Laguna Technopark, Binan, Laguna

Dear Mr. Dacara,

The BS Computer Science program of Mapúa Malayan Colleges Laguna requires their students to undergo a Practicum program for a minimum of 324 hours during the third term of our academic calendar.

We would like to request that Mr. Vincent Luis R. Nueva España be permitted to have his training in your company. We believe that your company can provide the relevant exposure necessary for our students to achieve the intended learning outcomes for the BS Computer Science program. We are confident that he will be able to acquire the practical knowledge and skills expected from a Computer Science graduate which, in turn, would guarantee a continuous supply of CS professionals needed by your company.

We thank you for your favorable action and we look forward to a more meaningful linkage that is mutually beneficial to our students and your company.

With warm regards,

A handwritten signature of Jonalyn G. Ebron.

**JONALYN G. EBRON**  
BS Computer Science Program Chair  
College of Computer and Information Science  
Mapúa Malayan Colleges Laguna

jgberon@mcl.edu.ph  
(049) 832-4076

**Appendix G**  
**Daily Time Record**



**DAILY TIME RECORD\***

REVISION NO.: 00  
REVISON DATE: MAY 10, 2006

NAME OF STUDENT		VINCENT LUIS R. NUEVA ESPAÑA		NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO		SYNCHRO ELECTRONICS INC. CAGAYAN DE MAMBA / NPI			
MONTH		April		MONTH		May			
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1					1				
2					2	7:30am	5:30pm	10	VJ
3					3				
4					4				
5					5	8:00am	5:30pm	9.5	VJ
6					6				
7					7	8:00am	5:30pm	9.5	VJ
8					8	8:00 am	5:30pm	9.5	VJ
9					9	8:00am	5:30pm	9.5	VJ
10					10				
11					11				
12					12				
13					13	8:00am	5:30pm	9.5	VJ
14					14	8:00am	5:30pm	9.5	VJ
15					15	9:00am	5:30pm	9.5	VJ
16					16	8:00am	5:30pm	9.5	VJ
17					17				
18					18				
19					19	7:30am	5:30pm	10	VJ
20					20	7:30am	5:30pm	10	VJ
21					21	8:00am	5:30pm	10	VJ
22	8:00am	5:30pm	9.5	VJ	22	8:00am	5:30pm	9.5	VJ
23	8:00am	5:30pm	9.5	VJ	23	8:00am	5:30pm	9.5	VJ
24	8:00am	5:30pm	9.5	VJ	24				
25					25				
26					26	8:00am	5:30pm	9.5	VJ
27					27	8:00am	5:30pm	9.5	VJ
28	8:00am	5:30pm	9.5	VJ	28	8:00am	5:30pm	9.5	VJ
29	8:00am	5:30pm	9.5	VJ	29				
30	8:00am	5:30pm	9.5	VJ	30				
31					31				

\* To be validated once a week by the Practicum Advisor/Coordinator  
\*\* This may be replaced by the DTR officially used by the company

Signature over printed name of Practicum Supervisor

Nicole Jocelyn  
Date July 10, 2006

VERIFIED BY \_\_\_\_\_

FORM OVPA 020H

## DAILY TIME RECORD\*

REVISION NO.: 00  
REVISON DATE: May 10, 2016

NAME OF STUDENT		Unvert Luis P. Nuva Espana		NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO		SINULOG ELECTRONICS INC. CHAMPA / NPI					
MONTH	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	MONTH	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
June	1					July	1	8:00am	5:30pm	9.5	VJ
	2	8:00am	5:30pm	9.5	VJ		2	8:00am	5:30pm	9.5	VJ
	3	8:00am	5:30pm	9.5	VJ		3	8:00am	5:30pm	9.5	VJ
	4	8:00am	5:30pm	9.5	VJ		4	8:00am	5:30pm	9.5	VJ
	5						5				
	6						6				
	7						7	8:00am	5:30pm	9	VJ
	8						8	8:00am	5:30pm	9	VJ
	9	8:00am	5:30pm	9.5	VJ		9	8:00am	5:30pm	9	VJ
	10	8:00am	5:30pm	9.5	VJ		10	8:00am	5:30pm	9.5	VJ
	11						11	8:00am	5:30pm	9.5	VJ
	12						12				
	13						13				
	14						14	8:00am	5:30pm	9	VJ
	15						15	8:00am	5:30pm	9.5	VJ
	16	8:00am	5:30pm	9.5	VJ		16	8:00am	5:30pm	9	VJ
	17						17	8:00am	5:30pm	9.5	VJ
	18						18	8:00am	6:00pm	9.5	VJ
	19	8:00am	5:30pm	9.5	VJ		19				
	20						20				
	21						21				
	22						22				
	23	8:00am	5:30pm	9.5	VJ		23				
	24	8:00am	5:30pm	9.5	VJ		24				
	25	8:00am	5:30pm	9.5	VJ		25				
	26	8:00am	1:00pm	5 hours	VJ		26				
	27						27				
	28						28				
	29						29				
	30	8:00am	5:30pm	9.5	VJ		30				
	31						31				

VERIFIED BY

Victor Jordon

July 10, 2016

Signature over printed name of Practicum Supervisor

Date

\* To be validated once a week by the Practicum Adviser/ Coordinator  
\*\* This may be replaced by the DTR officially used by the company

## Appendix H

### Student Evaluation on Practicum Host Company and Training



REVISION NO.: 00  
REVISION DATE: May 13, 2016

#### **STUDENT EVALUATION ON PRACTICUM HOST COMPANY AND TRAINING**

##### **IMPORTANT INFORMATION**

- THIS FORM IS USED TO EVALUATE THE PERFORMANCE OF PRACTICUM HOST COMPANY BY THE STUDENT
- PRACTICUM ADVISER NOTES THE EVALUATION AND DISCUSSES RESULTS WITH THE STUDENT
- NOTED OUT PERFORMANCE EVALUATION REPORT FORMS PART OF THE PRACTICUM REPORT/PORTFOLIO OF THE STUDENT

NAME OF HOST COMPANY	DEPARTMENT/SECTION/AREA ASSIGNED
STMICRO ELECTRONICS INC. CALAMBA	NPI (New Product Introduction)
ADDRESS OF COMPANY USP II, ST-Ericsson, 9 MT Dr., Calamba, 4026 Laguna	

**INSTRUCTIONS:** Please indicate how much you agree with each statement with 1 being that you strongly disagree and 5 being that you strongly agree.

**LEGEND:** 5 – Strongly Agree    4 – Agree    3 – Neutral    2 – Disagree    1 – Strongly Disagree    NA – Not applicable

##### **PART I: EVALUATION ON PRACTICUM HOST COMPANY**

STATEMENTS	RATING (please encircle one)
1. I was given an orientation about the company rules, regulations, and enough explanation of my practicum assignment at the beginning of the training.	(5) 4 3 2 1 NA
2. The employees I worked with served as resource persons, sharing ideas and materials.	5 (4) 3 2 1 NA
3. The people I worked with were perceptive of my needs.	5 4 (3) 2 1 NA
4. The practicum supervisor spent time observing my performance.	5 4 (3) 2 1 NA
5. The practicum supervisor provided me with enough constructive criticism.	5 4 (3) 2 1 NA
6. The practicum supervisor sufficiently answered my questions and clarifications.	(5) 4 3 2 1 NA
7. The practicum supervisor was objective when critiquing my skills.	5 4 (3) 2 1 NA
8. The demands placed upon me were realistic in this practicum experience.	5 (4) 3 2 1 NA
9. I felt comfortable in my overall relationship with the people in the host company	(5) 4 3 2 1 NA
10. The practicum supervisor was fair in her/his judgment of my skills.	5 4 (3) 2 1 NA
11. I benefited from the supervision provided by the practicum supervisor.	5 4 (3) 2 1 NA
12. I was given sufficient opportunities for the development of my skills and abilities	5 4 (3) 2 1 NA
13. The practicum supervisor served a good professional model.	5 4 (3) 2 1 NA
14. The company promotes a healthy working environment	(5) 4 3 2 1 NA

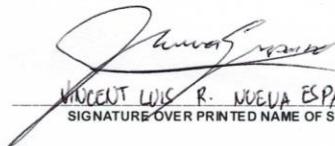
##### **ADDITIONAL COMMENTS (STRENGTHS AND AREAS TO IMPROVE)**

<p>Add more seminars / trainings or weekly reviews to assess what the trainee has learned.</p> <hr/> <hr/> <hr/>
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**PART II: EVALUATION ON PRACTICUM TRAINING**

STATEMENTS	RATING (please encircle one)					
1. The training permitted me to generate the minimum number of direct contact hours required within a specified timeframe.	(5)	4	3	2	1	NA
2. The training provided me with experiences that encouraged and developed my interpersonal skills.	(5)	4	3	2	1	NA
3. The training provided me with experiences that encouraged and developed my technical skills.	(5)	4	3	2	1	NA
4. The training provided me with experiences that encouraged and developed my analytical skills.	(5)	4	3	2	1	NA
5. The training provided me with experiences that encouraged and developed my management skills.	(5)	4	3	2	1	NA
6. The training provided me with experiences that encouraged and developed my customer relations skills.	(5)	4	3	2	1	NA
7. Facilities and equipment are adequate and made available for the training	(5)	4	3	2	1	NA
8. Overall, the establishment provided me with a good on-the-job training	(5)	4	3	2	1	NA

**ADDITIONAL COMMENTS (STRENGTHS AND AREAS TO IMPROVE)**

VINCENT LUIS R. NUEVA ESPAÑA  
SIGNATURE OVER PRINTED NAME OF STUDENT