

COLLEGE OF COMPUTER AND INFORMATION SCIENCE

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**Academic Year 2024 – 2025**

**CS199F (CS PRACTICUM) NARRATIVE REPORT**

Submitted by:

FRANCISCO, Jonard Cyrus S.

Submitted to:

Professor Jonalyn G. Ebron

Practicum Adviser:

Professor Dennis A. Martillano

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. Calamba

The internship was conducted at STMicroelectronics Inc. Calamba, a global semiconductor manufacturing company known for its advanced technology solutions for a wide range of industries, including automotive, industrial, and consumer electronics. The Calamba site, located in Laguna, began operations in 2009 and traces its heritage from predecessor companies Philips and NXP Semiconductors. It occupies a total land area of 82,779 square meters, with a building area of 76,392 square meters. This includes a 35,200 square meter cleanroom that houses production lines, and a 2,598 square meter finished goods warehouse.

As part of a Switzerland-based multinational corporation, STMicroelectronics employs nearly 50,000 personnel worldwide, with approximately 3,000 employees stationed at the Calamba plant. The company is committed to enabling sustainable and intelligent technology, aligning its operations with eco-friendly practices, digital transformation, and stringent safety measures. The Calamba site has gained recognition for its zero-waste initiatives, smart manufacturing processes, and active involvement in community development programs.

STMicroelectronics Calamba operates as a back-end production site, specializing in the assembly, testing, and packaging of integrated circuits used in various industries, including automotive systems, industrial automation, consumer electronics, and smart devices. The site supports the production of various semiconductor devices such as power devices, memory chips, microcontrollers, and optical sensors.

The company operates with a clear vision of being the preferred choice for excellent products and services by empowering innovation through high-performance, sustainable technologies. Its mission is “ST stands for life.augmented” is a commitment to enhancing lives through cutting-edge semiconductor solutions. From automotive and industrial applications to IoT and smart devices, our products drive progress, efficiency, and connectivity in an increasingly digital world.

The STMicroelectronics Calamba facility exemplifies this mission, combining state-of-the-art manufacturing systems with a strong commitment to quality, operational excellence, and continuous improvement. Beyond technological leadership, the STMicroelectronics Calamba site prioritizes environmental sustainability, featuring landscaped green spaces with fruit-bearing trees and flowering plants to promote biodiversity. This harmonious blend of advanced technology, efficiency, and eco-conscious practices fosters a dynamic and professional environment—one that provided an ideal setting for the student’s practicum engagement.

## **Nature of Assignments or Tasks Given**

During the internship at STMicroelectronics Inc. Calamba under the OPS 1 Assembly department, the student was assigned tasks centered on Process Engineering, data analysis, and quality control. These responsibilities provided hands-on experience in semiconductor manufacturing, from daily production monitoring to implementing digital tools for process improvement.

The internship commenced with an orientation week, where the student underwent seminars on company policies, safety protocols, and manufacturing workflows. Training sessions included Power BI basics, 7QC Tools, and general assembly processes. By the second week, the student was deployed to the OPS 1 Assembly department, introduced to supervisors, and tasked with creating Excel-based graphs to track daily defect trends, a critical tool for identifying production issues.

In Week 3, the student expanded their role by updating daily defect trend reports and observing peers to deepen their understanding of assembly line processes. Week 4 introduced additional responsibilities, including the development of Quarterly, Monthly, and Weekly PPM performance graphs. During this phase, the student identified and resolved data discrepancies in reports, honing their analytical and problem-solving skills.

The focus shifted to quality assurance in Week 5, with the student conducting 5S audits and learning the Mold Process to study terminologies, procedures, and defect identification. By Week 6, they performed SCAT Manufacturing process validations, ensuring lot and unit conformity while continuing to refine Excel dashboards.

A significant milestone was reached in Week 7 when the student proposed and initiated a Power BI integration project to automate data visualization. They created a practice

PowerPoint presentation on EOL 1 processes and began transitioning Excel-based defect reports to interactive Power BI dashboards. By Week 8, they finalized their presentation and practiced using Power BI to replicate existing Excel tasks, focusing on data refinement and visualization techniques.

In Week 9, the student prepared for their departmental presentation, summarizing key learnings. By Week 10, the student delivered the presentation, incorporated feedback, and shifted focus to EOL 2, end-stage assembly processes, touring facilities to understand Singulation and VMI (Visual Manual Inspection).

In Week 11-13, the student advanced to specialized quality control tasks including unit dimension verification and defect root-cause analysis, while further optimizing Power BI dashboards for production monitoring. Comprehensive documentation was created to standardize the Excel and Power BI tools for team adoption. The presentation summarized the internship journey, highlighting key learnings in semiconductor manufacturing processes, quality control systems, and the development of data analysis tools from Excel dashboards and Power BI.

The internship offered comprehensive learning experience, equipping the student with practical skills in data visualization, process auditing, and defect analysis. The transition from Excel to Power BI demonstrated adaptability and innovation, while cross-departmental exposure highlighted the end-to-end production workflow. These experiences underscored the importance of precision, problem-solving, and continuous improvement in a high-tech manufacturing environment.

### **Total Hours Rendered**

During the internship at STMicroelectronics Calamba, the student completed a total of 344 hours divided into three training phases. The initial orientation and training phase totaled 59.5 hours, beginning with 25.5 hours dedicated to HR orientation covering essential workplace policies and safety standards. This was followed by 34 hours of technical training, including 8.5 hours each on Power BI and 7 QC Tools for data analysis and quality control, plus 17 hours focused on fundamental manufacturing processes. The subsequent 172.5-hour hands-on practice phase provided immersive experience in semiconductor production operations, where the student applied learned skills in machine operations, defect analysis, and 5S audits under close supervisor guidance. The final phase consisted of a 112-hour data analytics project that allowed the student to develop practical solutions, including creating Excel dashboards for defect tracking and migrating these to Power BI to automate data visualization processes. This structured progression from theoretical training to practical application and project work effectively bridged manufacturing operations with computer science applications, providing comprehensive professional development.

*Table 1*

Summary of Hours Rendered

<b>Task</b>	<b>Hour Count</b>
HR Orientation	25.5
Power BI Training	8.5
7 QC Tools Training	8.5
Manufacturing Orientation	17

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On-the-Job Practice and Skill Application	172.5
Coaching, Mentoring	
Project (Excel and Power BI)	112
Total Hours	344

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### **Presentation of Output**

The outputs produced during the internship at STMicroelectronics Calamba reflect the student's ability to bridge computer science principles with semiconductor manufacturing needs. While assigned as a Process Engineer in the EOL (End-of-Line) assembly department, the student identified an opportunity to enhance data-driven decision-making by proposing and developing analytical tools. This initiative complemented core responsibilities in process monitoring and quality control, demonstrating adaptability and proactive problem-solving.

One of the key deliverables was a series of Excel dashboards tracking daily and weekly trends in yield rates and defect patterns. These dashboards, updated regularly, provided the production team with real-time visibility into process inefficiencies, enabling swift corrective actions. For instance, a PPM (Parts Per Million) performance graph revealed recurring defects in specific batches, prompting targeted process adjustments. Recognizing the limitations of manual Excel reporting, the student recommended transitioning to Power BI to automate data visualization. After receiving approval, the student began migrating existing dashboards to Power BI, designing interactive reports with filters for defect categories and production lines. This project not only improved reporting efficiency but also showed the student's ability to translate technical skills into practical solutions.

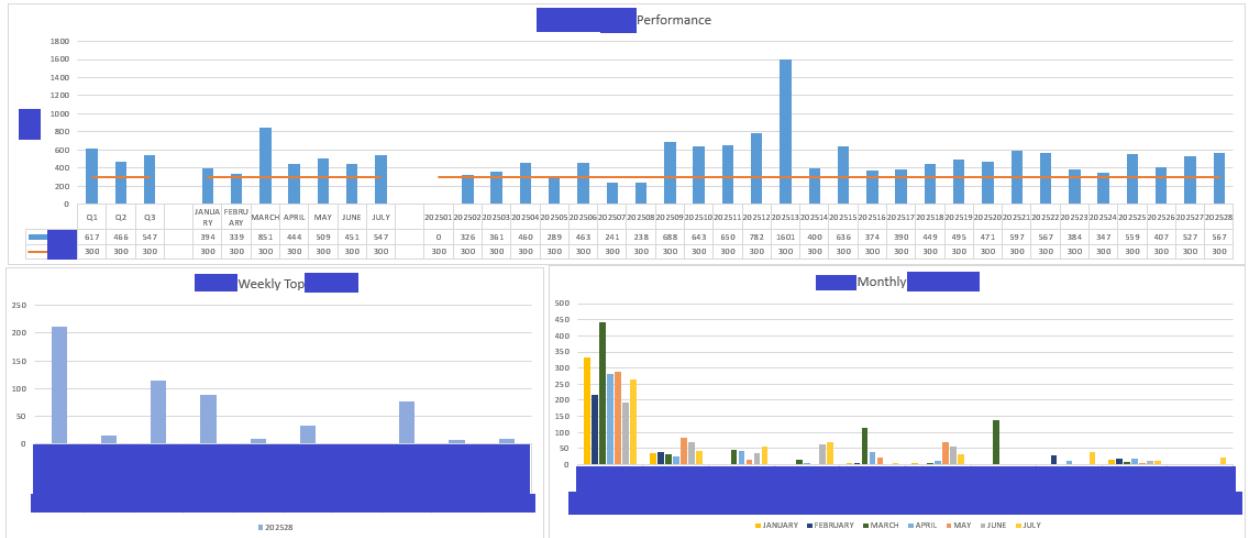


Figure 2 Sample Excel Graphs of Yield Trend



Figure 3 Sample Power BI Graphs of Yield Trend

Beyond data analytics, the student familiarize with EOL processes, including mold assembly and process validation. Through observation and guided training, they learned to understand EOL processes, and identify common defects, such as voids, scratches, copper oxidation in leadframes, and documented workflows to support traceability.

Additionally, the student contributed to process optimization through 5S audits. By inspecting workspaces for compliance with 5S principles (Sort, Systematize, Sweep, Sanitize/Standardize, Self-Discipline), they identified areas for improvement, such as misplaced tools and unlabeled storage bins. These audits underscored the importance of systematic approaches to operational efficiency.

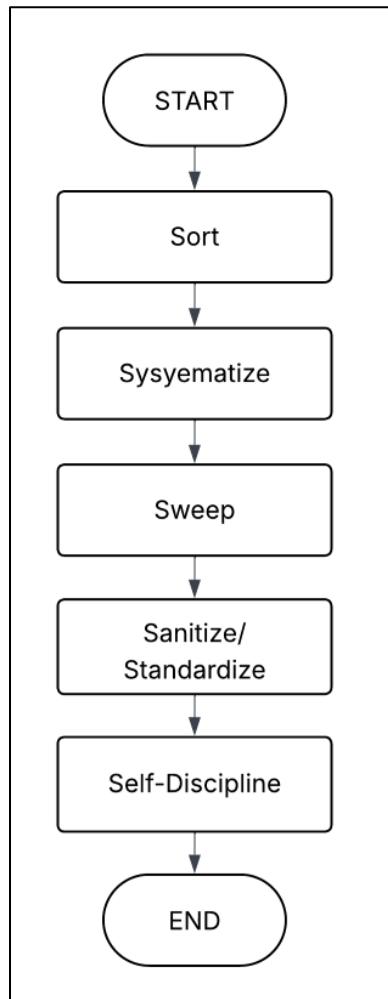


Figure 4 Flowchart of 5S Principle

## Synthesis of the Practicum Engagement

### Learnings

The practicum at STMicroelectronics Calamba provided a comprehensive immersion into semiconductor manufacturing operations, particularly within the End-of-Line (EOL) production environment. As a Process Engineer, I gained hands-on experience monitoring production lines and became thoroughly familiar with assembly processes, from mold packaging to singulation. This operational knowledge formed the foundation for meaningful contributions to quality control initiatives.

Through daily production monitoring, I developed expertise in identifying and validating package defects, including voids, scratches, and copper oxidation in leadframes. This quality assurance role required meticulous attention to detail when inspecting units and documenting non-conformances. The 5S audit responsibilities further enhanced my understanding of manufacturing best practices, as I systematically evaluated workspaces for compliance with Sort, Systematize, Sweep, Sanitize, and Self-Discipline principles.

Complementing these production-focused activities, I applied my computer science background to develop data analytics solutions. Creating Excel dashboards to track daily yield rates and defect patterns allowed me to bridge theoretical knowledge with practical applications. The subsequent migration to Power BI represented a significant learning milestone, as I mastered new data visualization techniques to present complex production metrics in accessible formats for engineering teams.

## **Realizations**

The internship revealed important insights about professional practice in manufacturing environments. I recognized how academic knowledge serves as a foundation, but real-world application demands adaptability, particularly when troubleshooting unexpected data discrepancies or adjusting audit protocols to meet production constraints. The experience underscored that effective problem-solving often requires balancing technical skills with practical constraints.

Working across both production and analytics helped me appreciate the interconnected nature of modern manufacturing. While conducting physical inspections of products, I saw firsthand how the data I visualized in Power BI directly correlated with quality issues on the production line. This holistic perspective reinforced the value of interdisciplinary approaches in industrial settings.

Perhaps most significantly, I realized how small, consistent improvements, whether optimizing a dashboard filter or reorganizing a workstation during audits, the student can collectively drive substantial operational gains. The practicum also clarified my professional preferences, revealing a strong interest in roles that combine analytical problem-solving with tangible manufacturing applications.

## **Conclusion**

This practicum experience at STMicroelectronics Calamba delivered substantial professional growth across multiple dimensions. The opportunity to contribute meaningfully to both production operations (through defect analysis and audits) and data analytics initiatives (via Excel/Power BI reporting) provided a well-rounded understanding of semiconductor manufacturing.

The technical skills developed - from EOL process knowledge to advanced data visualization - will serve as valuable assets in my future career. Equally important were the professional competencies gained through daily collaboration with engineers, supervisors, and production staff. These interactions refined my ability to communicate technical concepts across functional areas.

As I progress in my career, I will carry forward the lessons learned about precision, continuous improvement, and interdisciplinary collaboration. The experience has solidified my interest in pursuing roles at the intersection of technology and manufacturing, where I can apply analytical skills to solve real-world production challenges. This practicum has proven instrumental in preparing me for the demands and opportunities of a professional engineering career.

## Appendices

### Appendix A

#### Competency-Based CV

# JONARD CYRUS S. FRANCISCO

jonardfrancisco.work@gmail.com | +63917 864 7657 | github.com/Jonard14 | linkedin.com/in/jonard-cyrus-francisco/ | https://jonard-francisco.vercel.app/index.html

#### EDUCATION

<b>Mapúa Malayan Colleges Laguna</b>	<b>August 2020 - Expected October 2025</b>
• Bachelor of Science in Computer Science	
• Relevant Courses: Data Structures and Algorithms, Software Engineering, Web Development, Automata and Language Theory, Machine Learning, Data Analytics, Information Assurance and Security	

#### TECHNICAL SKILLS

<b>Languages:</b> Python, C#	<b>Database:</b> MS SQL, MySQL
<b>Web Development:</b> HTML, CSS	<b>Tools:</b> Github, VS Code, Unity, Postman, Power BI,
<b>Frameworks:</b> Flask, ASP.NET, Bootstrap, Xamarin	Excel

#### CERTIFICATIONS

• <b>Employability Skills - Job Ready</b>   Wadhwan Foundation	<b>May - July 2025</b>
• <b>7QC Tools Training</b>   STMicroelectronics Inc. Calamba	<b>April 2025</b>
• <b>Power BI Training</b>   STMicroelectronics Inc. Calamba	<b>April 2025</b>
• <b>Artificial Intelligence Essentials V2</b>   Coursera	<b>March 2025</b>
• <b>CompTIA IT Fundamentals (ITF+)</b> Certification   CompTIA	<b>July 2024</b>
• <b>TOEIC Listening &amp; Writing (820/900), Speaking &amp; Writing (310/400)</b>   TOEIC	<b>January 2025</b>
• <b>AWS Academy Graduate - AWS Academy Cloud Foundations</b>   AWS Web Services (AWS)	<b>November 2023</b>
• <b>Google Cloud Essentials</b>   Google Cloud Skills Boost	<b>September - October 2023</b>

#### PROFESSIONAL EXPERIENCE

<b>Process Engineer at STMicroelectronics Inc. Calamba</b>	<b>April 2025 - July 2025</b>
• Developed data visualization tools (Excel/Power BI) to automate defect tracking and yield analysis.	
• Migrated manual reports to interactive dashboards, reducing processing time	
• Applied data analytics to identify defect patterns, improving production efficiency	

#### PROJECTS

<b>Personal Portfolio - <a href="https://jonard-francisco.vercel.app/index.html">https://jonard-francisco.vercel.app/index.html</a></b>	<b>July 2025</b>
• Built with HTML/CSS, hosted on Vercel for easy deployment	
• Showcases skills, certifications, and projects in an interactive format.	
<b>AINA: A Personalized Health Recommendation System</b>	<b>October 2024 - July 2025</b>
• Deep learning system for height and weight estimation through image processing with personalized health recommendations using LLMs.	
• Python Flask for web development, OpenCV and TensorFlow for image processing, Gemini API for LLM, and Azure for database.	
<b>NutriTrack Mobile App</b>	<b>December 2023 - July 2024</b>
• Comprehensive mobile application for tracking dietary intake, nutritional content, and health parameters like sugar and sodium levels.	
• Xamarin for mobile development, and Azure for database	
<b>Jumping Jack</b>	<b>March 2024</b>
• 2D platformer game challenging players to reach the top of a tower with leaderboard functionality for fastest completion times.	
• Unity for game development, and SQLite for database.	
<b>Coin Detection in Education</b>	<b>November 2023</b>
• Educational tool using computer vision to detect coins, promoting financial literacy through technological learning.	
• Python for development, and OpenCV for recognition, Computer Vision	

#### ACHIEVEMENTS

##### Awards

- Dean's Lister (1st Term A.Y. 2022-2023)

## Appendix B

### Endorsement Letter



**MAPÚA**  
MALAYAN COLLEGES  
LAGUNA



COLLEGE OF COMPUTER  
AND INFORMATION SCIENCE  
MAPÚA MALAYAN COLLEGES LAGUNA

31 March 2025

**MS. JOVY ORDONIA**

HR Recruitment Manager, STMicroelectronics, Inc.  
Light Industry and Science Park II, ST-Ericsson  
9 Mountain Drive, Calamba, Laguna 4026

Dear Ms. Ordonia,

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. Jonard Cyrus S. Francisco 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 in black ink.

**JONALYN G. EBON**

BS Computer Science Program Chair  
College of Computer and Information Science  
Mapúa Malayan Colleges Laguna

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

## Appendix C

### Practicum Acceptance

 <b>MAPUA</b> MALAYAN COLLEGES LAGUNA		REVISION NO.: 00 REVISION DATE: May 10, 2016	
<b>PRACTICUM CONFIRMATION AND ACCEPTANCE FORM</b>			
<b>IMPORTANT INFORMATION</b>			
<ul style="list-style-type: none"><li>• STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.</li><li>• ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.</li><li>• SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.</li></ul>			
NAME OF STUDENT	Jonard Cyrus S. Francíscos	STUDENT NUMBER	2020151408
COURSE CODE	CS199F	SY/TERM ENROLLED	2024-2025/3T
This is to certify that <u>Jonard Cyrus S. Francisco</u> (name of student-trainee) has been accepted for practicum at <u>STMicroelectronics, Inc. - Light Industry and Science Park II, ST-Ericsson, 9 Mountain Dr, Calamba, 4026 Laguna</u> (name and address of establishment) and will be attached to the <u>OPS 1 Assembly</u> department/s for a minimum of, but not limited to <u>324</u> hours. Training will commence on <u>April 22, 2025</u> and is expected to end on <u>July 31, 2025</u> . Attached is the list of requirements.			
COMPANY REPRESENTATIVE			
<u>LESTER JOSEPH BELALO</u> Signature over Printed Name <u>OPS 1 ASSEMBLY</u> Department		<u>EOL Process Engr., Manager</u> Official Designation <u>lester.belalo@st.com / 09260030128</u> Email and Contact Number/s	
NOTED BY  <u>Jonalyn G. Ebron</u> Signature over printed name of Practicum Coordinator <u>5/10/2024</u> Date			
COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR		FORM OVPA 030B THIS FORM IS AVAILABLE AT THE OVPA.	
 <b>MAPUA</b> MALAYAN COLLEGES LAGUNA		REVISION NO.: 00 REVISION DATE: May 10, 2016	
<b>PRACTICUM CONFIRMATION AND ACCEPTANCE FORM</b>			
<b>IMPORTANT INFORMATION</b>			
<ul style="list-style-type: none"><li>• STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.</li><li>• ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.</li><li>• SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.</li></ul>			
NAME OF STUDENT	Jonard Cyrus S. Francisco	STUDENT NUMBER	2020151408
COURSE CODE	CS199F	SY/TERM ENROLLED	2024-2025/3T
This is to certify that <u>Jonard Cyrus S. Francisco</u> (name of student-trainee) has been accepted for practicum at <u>STMicroelectronics, Inc. - Light Industry and Science Park II, ST-Ericsson, 9 Mountain Dr, Calamba, 4026 Laguna</u> (name and address of establishment) and will be attached to the <u>OPS 1 Assembly</u> department/s for a minimum of, but not limited to <u>324</u> hours. Training will commence on <u>April 22, 2025</u> and is expected to end on <u>July 31, 2025</u> . Attached is the list of requirements.			
COMPANY REPRESENTATIVE			
<u>LESTER JOSEPH BELALO</u> Signature over Printed Name <u>OPS 1 ASSEMBLY</u> Department		<u>EOL Process Engr., Manager</u> Official Designation <u>lester.belalo@st.com / 09260030128</u> Email and Contact Number/s	
NOTED BY  <u>Jonalyn G. Ebron</u> Signature over printed name of Practicum Coordinator <u>5/10/2024</u> Date			
COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR		FORM OVPA 030B THIS FORM IS AVAILABLE AT THE OVPA.	



**STMicroelectronics, Inc.**  
9 Mountain Drive, Light Industry and Science Park II  
Barangay La Mesa, Calamba City, Laguna 4027, Philippines  
Tel. +63 2 7792 5200

**Prof. Jonalyn G. Ebron**  
Program Chair, Computer *Science*  
Mapua Malayan Colleges of Laguna

**Dear Madame Jonalyn,**

We are very pleased to accept Mapua Malayan Students in our On-the-Job Training Program under the operation team of STMicroelectronics Calamba site. This is a 5 day per week, 8.5 hours per day program which will run from **April 22, 2025 to July 31, 2025**.

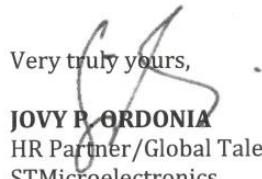
See below list of students:

Full Name	Course	Department
Gabriel Edward Owel M. Villamor	BS Computer Science	DTIT
John Bernard G. Sahagun	BS Computer Science	OPS 1 Assy
Thomas Jensen C. Almazora	BS Computer Science	OPS 1 Assy
Jonard Cyrus S. Francisco	BS Computer Science	OPS 1 Assy
Marco Allen Gianan	BS Computer Science	OPS 1 Assy
Jon Peter P. Pomperada	BS Computer Science	OPS 1 Assy
Chanelle C. Melegrito	BS Computer Science	OPS 1 Assy
Leonard Reshley M. Tiangsing	BS Computer Science	NPI
Vincent Luis R. Nueva España	BS Computer Science	NPI
Pearl Angelou O. Lim	BS Computer Science	Mfg. Data Science
Zoe Aleczandra A. Pineda	BS Computer Science	TPE
Robby Galang	BS Computer Science	NPI
Gerico Tolayba	BS Computer Science	NPI

We assure you that we will be able to provide the proper training and exposure needed by your students to develop and expanded perspective of their field of specialization and actual industry environment.

Thank you for your trust in our company. We look forward to a future school-industry partnership with you.

Very truly yours,

  
**JOVY B. ORDONIA**  
HR Partner/Global Talent Acquisition  
STMicroelectronics

ST Restricted

## Appendix D

### Liability Waiver



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, Jonard Cyrus S. Francisco, and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL"), do hereby voluntarily undergo on-the-job training at STMicroelectronics, Inc., herein after referred to as the "Host Company", located at Light Industry and Science Park II, ST-Ericsson, 9 Mountain Dr., Calamba, 4026 Laguna, under the following terms and conditions:

- a. That the practicum training will commence on April 22, 2025 and ends on July 31, 2025 and will have to complete a minimum of 324 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 5th day of May.

JONARD CYRUS S. FRANCISCO  
Signature over printed name of Student Trainee

#### WITH OUR CONSENT:

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

#### NOTED BY:

JOMALYN G. EBON 05/06/2025  
Printed Name and Signature of Practicum Adviser/ Coordinator

Printed Name and Signature of Host Company Representative



**STMicroelectronics, Inc.**  
9 Mountain Drive, Light Industry and Science Park II  
Barangay La Mesa, Calamba City, Laguna 4027, Philippines  
Tel. +63 2 7792 5200

## **TRIPARTITE AGREEMENT**

(Between Sponsoring Company, School and Student)

This **TRIPARTITE AGREEMENT** duly entered into this **22nd** day of **April 2025** by and between:

**STMicroelectronics, Inc.** with business address at 9 Mt. Drive, Light Industry Science Park II, Brgy. La Mesa, Calamba City, Laguna, hereinafter referred to as the "**Sponsoring Company**,"

**And**

**Mapúa-Malayan Colleges Laguna**, with address at **Pulo-Diezmo Road, Cabuyao, 4025 Laguna, Cabuyao, Philippines**, hereinafter referred to as the "**School**," represented in this agreement by **Jonard Cyrus S. Francisco**, in his/her capacity as OJT Coordinator.

**And**

**Mr. / Ms. Jonard Cyrus S. Francisco** residing at **B11 L5 Katatagan St., Pamana Homes Subd., Brgy. Bucal, Calamba City, Laguna** and born on **February 26, 2001** currently enrolled at **Mapúa-Malayan Colleges Laguna** taking up **BS Computer Science** hereinafter referred to as the "**Student Trainee**."

### **TERMS and CONDITIONS**

1. That the **School** conduct briefing on **Student Trainees** who intend to conduct practicum exposure in the **Sponsoring Company** as part of the school's curriculum, taking into consideration the requirements of the company in terms of qualification and number of students.
2. That the **School** shall appoint an Industrial Coordinator to supervise the in-plant training.
3. That the **School** shall submit to the **Sponsoring Company** the necessary documents like the Training Agreement & Liability Waiver Form, Information Sheet, Performance Rating Sheet and Insurance Certificate as required under this program.
4. That the **Sponsoring Company** may not guarantee any form of employment upon completion of the training, however, it has the option to hire if it is so desired, based on the **Sponsoring Company's** job specification and qualification.
5. It is expressly understood that there will be no employer-employee relationship between the **Sponsoring Company** and the **Student Trainee**.



**STMicroelectronics, Inc.**  
9 Mountain Drive, Light Industry and Science Park II  
Barangay La Mesa, Calamba City, Laguna 4027, Philippines  
Tel. +63 2 7792 5200

6. That the schedule of the training shall be in accordance to the Student Training Plan hereto attached and made part of this agreement and marked as **Annex "A."**
7. That the **Sponsoring Company** agrees to train and develop the **Student Trainee**, and the **Student Trainee** agrees to apply himself diligently and faithfully as a Student under the Academe Partnership Program, the following terms and conditions:

Period of training: **324 Hours**  
Daily Allowance: **Php 405** (75% of Calamba's daily minimum wage)  
Insurance: **Fixed Php50,000 life insurance coverage**  
Medical Insurance: **Php75,000 per illness per training period**
8. That the **Student Trainee** shall work the equivalent of eight (8) hours a day during his/her training.
9. That the **Student Trainee** shall be at his/her training workplace at the start of the training hours. The regular training schedule is from Monday to Friday, 8:00 AM to 5:30 PM. Changes in the training schedule may be implemented depending on the need and should be approved by the **Student Trainee's** immediate supervisor. Below are the other applicable training schedules in the **Sponsoring Company**:
  - i. A shift is from 6 am to 2 pm (8 hours for 6 consecutive days followed by 2 days off)
  - ii. B shift is from 2 pm to 10 pm (8 hours for 6 consecutive days followed by 2 days off)
  - iii. Day Shift is from 6 am to 6 pm (12 hours for 4 consecutive days followed by 2 days off; except when one of the 4 days fall on a Sunday, the Student Trainee need not go to the **Sponsoring Company**)
10. That the **Student Trainee** is not allowed to render overtime work, thus, shall not extend after his/her scheduled regular training nor report for training during holidays and rest days.
11. That upon completion of the training program by the **Student Trainee** the **Sponsoring Company** shall issue copy of the Certificate of Academe Partnership Program Completion signed by HR Director.

That the **Sponsoring Company** rules and regulations shall be observed as part of the terms and conditions of this agreement and that the **Sponsoring Company** reserves the right to discontinue the on-the-job training of any **Student Trainee** on reasonable grounds upon written notice to the **School's** OJT Coordinator. The discontinuation takes effect immediately upon the receipt of said notice.



**STMicroelectronics, Inc.**  
9 Mountain Drive, Light Industry and Science Park II  
Barangay La Mesa, Calamba City, Laguna 4027, Philippines  
Tel. +63 2 7792 5200

IN WITNESS WHEREOF, the parties hereunto affixed their signatures this **22nd** day of April, **2025** at Calamba City, Laguna.

By:

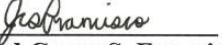
**SPONSORING COMPANY**

  
**Joseph Oliver Tacorda**  
STMicroelectronics, Inc.

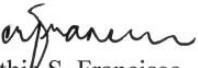
**SCHOOL**

  
**Jonalyn Ebron**  
Mapúa-Malayan Colleges Laguna

**STUDENT TRAINEE**

  
**Jonard Cyrus S. Francisco**

**STUDENT TRAINEE EMERGENCY CONTACT DETAILS:**

  
**Cynthia S. Francisco**  
Parents / Guardian

**0917-545-6547**  
**Contact Number**

## Appendix E

### Training Plan



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

#### TRAINING PLAN

NAME	Jonard Cyrus S. Francisco	COURSE CODE	CS199F
PROGRAM & STUDENT NO.	BSCS & 2020151408	COURSE TITLE	CS Practicum

#### STUDENT OUTCOMES

- ① Acquire foundational knowledge of semiconductor assembly manufacturing process flow
- ② Learn how each EOL Manufacturing Assembly process steps
- ③ Apply concepts in Computer Science in dealing with the problem solving process of the organization

#### AREAS / PHASES OF TRAINING AND TIME ALLOTMENT

See attached Training Plan from ST Microelectronics Human Resource.

#### EVALUATION GUIDELINES & COURSE OUTCOMES

DEMONSTRATION OF SOFT SKILLS (40%)	DEMONSTRATION OF TECHNICAL SKILLS (60%)
<p><b>KEY AREAS</b></p> <p><b>COMMUNICATION SKILLS (20%)</b></p> <p>Relate to co-trainees/supervisors terminologies and rules Recite procedures and instructions needed for the tasks Identify and describe safety signs and symbols Ask critical questions related to the tasks Produce well-written regular and incident reports Prepares and presents reports using Information and Communication Technology (ICT)</p> <p><b>PROFESSIONAL DEPORTMENT (20%)</b></p> <p>Observes proper grooming and attire Reports to work regularly on time and as necessary, even beyond prescribed working hour Acts according to the job description given by the company Willing to accept new tasks apart from the usual routine and responsibilities Delivers quality output on time Demonstrates respect for different individuals</p> <p><b>INITIATIVE (+5%)</b></p> <p>Volunteers to perform tasks beyond routine tasks</p>	<p><b>KEY AREAS</b></p> <p>_____ SKILLS (X%)</p> <p>_____ SKILLS (Y%)</p> <p>_____ SKILLS (Z%)</p> <p><b>INITIATIVE (+5%)</b></p> <p>Volunteers to perform tasks beyond routine tasks</p>

CONFORME	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY
<i>65-09-2015</i> <b>Jonard Cyrus S. Francisco</b> <small>SIGNATURE OVER PRINTED NAME OF STUDENT / DATE</small>	<small>SIGNATURE OVER PRINTED NAME OF PARENT OR GUARDIAN / DATE</small>	<i>LESTER JOSEPH BELLO</i> <small>SIGNATURE OVER PRINTED NAME OF PRACTICUM SUPERVISOR / DATE</small>	<i>Jonalyn G. Sison</i> <small>SIGNATURE OVER PRINTED NAME OF PRACTICUM ADVISER / DATE</small>	<i>Jonalyn G. Sison</i> <small>SIGNATURE OVER PRINTED NAME OF PROGRAM CHAIR / DATE</small>

Mentor: Lester Belalo  
Section/Area: EOL Assy

## Q2 - 2025 OJT Training Template

Month	Purpose	Intervention	Hours	Performance Measure
1	HR Orientation Mfg. Orientation	- HR Orientation - Manufacturing Orientation - PowerBI Training	- 8 hours - 24 hours - 20 hours	<ul style="list-style-type: none"> <li>• Attendance</li> <li>• Application of learnings</li> </ul>
2	On-the-Job Practice and Skill Application Coaching, Mentoring, and Project Application	<ul style="list-style-type: none"> <li>- EOL 1 orientation</li> <li>- EOL2 orientation</li> <li>- Mold machine critical assembly and parts identification</li> </ul>	<ul style="list-style-type: none"> <li>- 24 hours</li> <li>- 24 hours</li> </ul>	<ul style="list-style-type: none"> <li>• Attendance</li> <li>• Weekly accomplishment of tasks</li> <li>• Supervisor feedback</li> </ul>
3	Apply learnings in project that is relevant to the plant and the student	<ul style="list-style-type: none"> <li>- Machine operation understanding</li> <li>- Understanding Molding Process</li> <li>- Post Mold Cure Process</li> <li>- Singulation Process</li> <li>- Wet Process</li> <li>- Laser Mark Process</li> </ul>	<ul style="list-style-type: none"> <li>- 80 hours</li> </ul> <p style="background-color: #002060; color: white; padding: 2px;"><b>360 hours requirements</b></p>	<ul style="list-style-type: none"> <li>• Progress tracking</li> <li>• Level 3: Post-assessment</li> <li>• Level 1: OJT experience survey</li> <li>• Level 4: Project presentation and acceptance</li> </ul>
				<ul style="list-style-type: none"> <li>• Attendance</li> <li>• Weekly accomplishment of tasks</li> <li>• Supervisor feedback</li> <li>• Exit Clearance</li> </ul>

## **Appendix F**

### **Complete Weekly and Daily Journal**

Name: Francisco, Jonard Cyrus S.

Host Company/Department: STMicroelectronics / OPS 1 Assembly

Compiled WEEKLY JOURNAL (Week 1-5: April 22 – May 26, 2025)

During my first week, I attended orientation, seminars, trainings, and experiences in a professional work setting. It felt overwhelming since here are a lot of information to know and working within STMicroelectronics, but I am looking forward to work, learn, and experience in this company. We learned about the policies, procedures, and protocols that we need to know and to be aware of. We took a photoshoot at the front of STMicro and at the meeting room. Our next meeting, we learned Power BI Basic Training, 7QC Tools and Manufacturing/General Trainings, and did some activities on what we have learned.

During my second week, we continually did some General Trainings and taken some exams, and we did pass it. After that, the following day, we are deployed to our respective departments and meet my supervisor. They introduced the department of OPS 1 Assembly and toured and explained the processes. I was tasked to create a graph of daily trends and top defects so we can have immediate resolution for traceability issues of the product/processes.

During my third week, I was provided with notes and materials to further learn about the process in the production area. Then, I continually updated the excel graphs daily. After that, I observed what my peers were doing and explained to me in detail so that I would know.

During my fourth week, I continually updated the excel graphs daily. Then, I was given some additional tasks in the existing excel which I will be adding Quarterly, Monthly, and Weekly graphs, and PPM Performance. However, after I sent this report to my supervisor and saw discrepancies of my data which I checked and fixed this issue after validating my results.

During my fifth week, I continually updated the excel graphs for daily and weekly. Then, I was tasked to learn how to audit like doing 5S and monitor the process in the production area, and learned the entire Mold process starting from the procedure, terminologies, and identify the differences

Note:

April 25, 2025 (Week 1) – Leave due to seminar in MMCL about Career Readiness Toolkit Pathways to Employability

May 1, 2025 (Week 2) – Holiday: Labor Day

May 6, 2025 (Week 3) – Leave: Thesis

May 12, 2025 (Week 3) – Holiday: Election Day



## 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.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	April 22, 2025 - Week 1	AREA ASSIGNMENT	Diamond Hall
TASK	Orientation	SHIFT/TIME	0800H - 1730H

The orientation was overwhelming, but I am looking forward on working at STMicroelectronics to learn and experience through trainings, orientations, and experiences in a professional setting. I learned about the policies and workplace rules to be aware of, they taught us about the awareness of security like phishing email, and strict procedure on entering and leaving the company with the proper use of ID. They also taught us about safety and PPE equipment and its proper use. They toured us to the locker room and was assigned to our respective lockers, and picture taken for the employee ID.

It will take me a while to learn and follow the policies, and get to know the employees. The HR representative and their peers presented the orientation and taught me a lot about this company.

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## DAILY JOURNAL

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DATE	April 23, 2025 - Week 1	AREA ASSIGNMENT	Onyx Room & Ruby Room
TASK	Power BI Basic Training, and 7QC Tools, and Tour	SHIFT/TIME	0800H - 1730H

We took a photoshoot at the front of STMicro building of the fountain area, and at the meeting room. We taught about Power BI Basic Training and learned on how to use this software for data analytics like to be able to collect, clean, uniform, merge, and visualize the dataset which we can also use the Power BI to create reports, and dashboards to be able to view and monitor the data. We also learned 7QC Tools to be use for identifying and solving problems with the use of sheets, charts, and diagrams.

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DATE	April 24, 2025 - Week 1	AREA ASSIGNMENT	Onyx Room
TASK	Power BI Training	SHIFT/TIME	0800H - 1730H

Part 2 of our Power BI Training, we did an activity of to complete the training and receive a certification.

The process on doing this activity which did cleaning, combine, and uniform the dataset which we can able to create a visualization and dashboard for our reporting/presentation. After the completion, of Power BI, we will be receiving a certificate next week.

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DATE	April 28, 2025 - Week 1	AREA ASSIGNMENT	Training Room
TASK	Trainings	SHIFT/TIME	0800H - 1730H

We did some activities and trainings to orient about safety & health so that we are aware of its safety and awareness in this company. Afterwards, they oriented and taken exams of General Trainings. The first training, is the general training and qualification procedure for manufacturing personnel which talks about DO's and DONT's, proper format of name, date, and time (in military format) when writing forms in the company, showed the procedures on using the proper use and items placed in the locker and entering procedures when entering areas. Second training is the Calamba Manufacturing 5S Standardization Protocol which talks about the PPE equipment when entering manufacturing areas to prevent contaminations, foreign materials, and temperature & humidity.

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DATE	April 29, 2025 - Week 2	AREA ASSIGNMENT	Training Room
TASK	Manufacturing Training Day 2	SHIFT/TIME	0800H - 1730H

We did the continuation of trainings of General Trainings. The next training is about the Basic ESD (Electrostatic Discharge) Awareness which is a great concern especially this company since they are creating semiconductors. Next training is about Mixing Prevention Procedure so that we are aware and prevention of the use of chemicals in the production. Then Work Instruction for Non-Conforming Lots and Out of Control Action Plan talks about the procedures and preventions. Afterwards, we took exams about all the trainings and passed the tests.

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DATE	April 30, 2025 - Week 2	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Deployment/Assigned to Department	SHIFT/TIME	0800H - 1730H

After the trainings. I have deployed to my department. I have met my supervisor and their coworkers.

They introduced about this department. They toured me into the Manufacturing Production area to show and elaborate the processes of each equipment in each area.

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DATE	May 2, 2025 - Week 2	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Learning OPS 1 Assy	SHIFT/TIME	0800H - 1730H

Inside the manufacturing area, my coworkers (Ms Maiden and Sir Eris) toured me to the sections of process and explains on how each equipment processes. They also provided me notes of the manufacturing process in this production area. Later, I helped them find some logsheet for traceability issues. I observed my coworkers are working with the traceability to trace back issues why the Lot (is the IC or integrated circuit) caused its issue and how it will resolve this issue.

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DATE	May 5, 2025 - Week 2	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Learning OPS 1 Assy & Create trends and graphs in excel	SHIFT/TIME	0800H - 1730H

My coworker (Sir Noel) toured me with the other processes aside previously, and explains it in great detail. Then later, I continue taking down notes from the notes they provided. And lastly, my coworker tasked me to create a pivot table from the excel file to create daily yield trend and top defects of each processes so that we can have immediate resolution for traceability issues of the product/processes.

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DATE	May 7, 2025 - Week 3	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Daily Trend & Observation	SHIFT/TIME	0800H - 1730H

I was tasked to create a daily yield trend and top defects using excel to identify the number of rejects of each processes. Then, I observed my coworkers and explained the processes on optimizing the program of Mold parameter to see the leadframe of the circuit has fixed its issue. To validate the optimization, the leadframe is validated through x-ray to check leadframe damage of its wiring, and validate the plasma equipment to check the logs of leadframe for traceability issues.

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DATE	May 8, 2025 - Week 3	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Daily Trend & Observation	SHIFT/TIME	0800H - 1730H

I continually updated the daily trend and top defects in excel file. Then, I optimized and formatted the file so that it will be easy to update, and dynamically add data and graphs automatically. Later, I observed my coworkers on simulating the substrate (similar to leadframe but substrate is softer while leadframe is harder), where it got damaged from the magazine (is where the case of leadframe/substrate). The substrate shouldn't be touching each other in the magazine otherwise it would cause damage at each other. This is where we simulate to see how why it got damaged during the process of equipments.

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DATE	May 9, 2025 - Week 3	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Daily Trend, Observation, and additional learnings	SHIFT/TIME	0800H - 1730H

I continue updating the daily trend and top defect and report it to them. Later, they provided me another set of notes to study and understand the Basic Compound Theory of Epoxy Compound of where how the chip and leadframe/substrate are in together using epoxy compound, and Compression Molding Process where it teach the process of Mold where the IC (Integrated Circuit) in the leadframe/substrate board hold with a cover via compression or transfer.

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DATE	May 13, 2025 - Week 4	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Daily Trend, and creating more trends	SHIFT/TIME	0800H - 1730H

I continuously updated the daily yield and top defects and report it to my coworkers. Then, I was tasked to create another graphs to have Quarterly, Monthly, and Weekly of Top Defects and PPM Performance in excel and added parameters and filters to which data needed to present and report of those data. This is currently in progress to process the data and create visualizations to show the graphs with filters.

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DATE	May 14, 2025 - Week 4	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Trends & Graphs	SHIFT/TIME	0800H - 1730H

I continuously updated the daily yield and top defects and report it to my coworkers. Then, I currently finishing up and polishing the data and the graphs of Quarterly, Monthly, and Weekly of Top Defects and PPM Performance before I can send this report to them.

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DATE	May 15, 2025 - Week 4	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Trend & Graphs Update	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects and report it. Then, I have finished the graphs for quarterly to weekly top defects and ppm performance and reported it to my coworkers. Afterwards, I continue study and understand further about the manufacturing processes.

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TRAINEE'S SIGNATURE



## 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.
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DATE	May 16, 2025 - Week 4	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Trend & Graphs Fixes	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects and report it. However, the graphs of quarterly to weekly discovered some discrepancies of data and I checked and fixed this issue after validating my results.

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DATE	May 19, 2025 - Week 4	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Trend & Graphs Update	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and the weekly of quarterly to weekly of top defects and and ppm performance and report it. After that, I fixed and uniform the formatting of tables and graphs to make it efficient and able to update dynamically.

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DATE	May 20, 2025 - Week 5	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Trend & Graphs Update, and Audit	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects. Taught me about the process of Singulation and did visual inspection of units for validation. My supervisor taught me how to audit like 5S and check and monitor the processes.

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TRAINEE'S SIGNATURE



## DAILY JOURNAL

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DATE	May 21, 2025 - Week 5	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Trend & Graphs Update, and Audit	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and daily doing audit from time to time.

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DATE	May 22, 2025 - Week 5	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update, Audit, and observation & learnings	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and daily doing audit from time to time. My coworker explains about the x-ray inspection and validation of units which came from feedback of client and taught me how to identify defects of the unit.

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DATE	May 23, 2025 - Week 5	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update, Audit, and observation & learnings	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and daily doing audit from time to time. Then, I was tasked me to learn the entire Mold process starting from the procedure, terminologies, identify the difference of two processes of Mold which will be taught by the operator.

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DATE	May 26, 2025 - Week 5	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and the weekly of quarterly to weekly of top defects, and ppm performance and report it, and then daily doing audit from time to time. Then, I was tasked on adding more reports and data needed for the graphs presented in excel.

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TRAINEE'S SIGNATURE

Name: Francisco, Jonard Cyrus S.

Host Company/Department: STMicroelectronics / OPS 1 Assembly

Compiled WEEKLY JOURNAL (Week 6-10: May 27 – June 30, 2025)

During my sixth week, I continually updated the excel graphs daily and weekly. I did an audit on the site from time to time. I did observation and learned further of SCAT Mfg processes which were validating the Lots and units.

During my seventh week, I updated the daily graphs. I created a powerpoint presentation about EOL 1 as practice for the preparation for final presentation. I observed and learned from my coworker on doing validation of unmolded leadframe to observe the copper oxidation and other defects. And the request for installation of Power BI was approved so I can start working on the project which I did from excel graphs and do all what I have done to Power BI.

During my eighth week, I continually updated excel graphs daily and weekly. I am finalizing the presentation and practicing and familiarizing myself with Power BI which I will start moving from excel tasks to Power BI.

During my ninth week, I continually updated excel graphs daily and weekly. Finalizing the presentation about my current learnings and currently in development of Power BI on creating visualizations and refining data.

During my tenth week, I have presented my learnings in my department and received feedback on what to improve so I can prepare for the final presentation. I have shifted to another process learnings and where I have learned, familiarize, and toured about the final parts of processes and how it processes the result of the unit.

Note:

May 27-30, 2025 (Week 6) – Leave: Thesis

June 4-6, 2025 (Week 7) - Leave: Thesis

June 10, 2025 (Week 8) - Leave: Thesis

June 11, 2025 (Week 8) - Leave: Seminar for IT800

June 12, 2025 (Week 8) - Holiday: Independence Day

June 17-19, 2025 (Week 9) - Leave: Thesis

June 27 & 30, 2025 (Week 10) - Leave: Thesis



## DAILY JOURNAL

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DATE	May 27, 2025 - Week 6	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update & Learnings	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and the weekly of quarterly to weekly of top defects, and ppm performance and report it, and then daily doing audit from time to time. Then, did observation and learned further of SCAT Mfg process as it was validating the Lots and units.

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DATE	June 3, 2025 - Week 7	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and daily doing audit from time to time. Then further study and review of processes since I will be preparing for a test/exam to my supervisor to talk about the processes of Mold.

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DATE	June 9, 2025 - Week 7	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update and Power BI	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and the weekly of quarterly to weekly of top defects, and ppm performance and report it, and then daily doing audit from time to time. Then I observed from my coworker that they are doing validation of unmolded leadframe to observe the copper oxidation, and potential defects. And then, the request of installation of Power BI was approved and I start working on the project that I did from excel which will be moved to Power BI.

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DATE	June 13, 2025 - Week 8	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update and Power BI Development	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and daily doing audit from time to time. Then, I continue doing the Power BI from excel files I have done to be moved there. Currently, I am still refreshing and experimenting around in from what I have learned from Power BI training so I that I can able to fulfill my Power BI task.

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DATE	June 16, 2025 - Week 8	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update and Power BI Development	SHIFT/TIME	0800H - 1730H

I updated the weekly yield and top defects, and daily doing audit from time to time. Then, I continue doing the Power BI from excel files I have done to be moved there. Currently fixing the issue of formulas to get PPM value since it does not output properly. Preparation for presentation of learnings in EOL 1 processes.

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DATE	June 20, 2025 - Week 9	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Power BI Development and Preparation of Presentation	SHIFT/TIME	0800H - 1730H

Continuation of Power BI development. Validating, updating data, and fixing values and creating formulas (quick measure method) for output of values needed for report or visualization

Preparation and finalizing of presentation for EOL 1 Learnings and served as preparation for final presentation.

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DATE	June 23, 2025 - Week 9	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update and Preparation for Presentation	SHIFT/TIME	0800H - 1730H

I updated the daily yield and top defects, and daily doing audit from time to time.

Observed and learning the validation of units' defects.

Finalizing of presentation for EOL 1 Learnings and served as preparation for final presentation.

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DATE	June 24, 2025 - Week 10	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Preparation for Presentation and Power BI	SHIFT/TIME	0800H - 1730H

Finalizing of presentation for EOL 1 Learnings and served as preparation for final presentation.

Updated Power BI development created visualizations and refining data.

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DATE	June 25, 2025 - Week 10	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Presentation	SHIFT/TIME	0800H - 1730H

Presentation of EOL 1 Learnings and received feedback of my presentation which will be served as for the upcoming final presentation of the company.

Shifted to EOL 2 processes and provided materials and notes to learn and understand the other processes.

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DATE	June 26, 2025 - Week 10	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	EOL 2 Activities	SHIFT/TIME	0800H - 1730H

Provided materials and notes to learn the processes of EOL 2.

I learned the processes of units which is about the last part of processes in detail and toured me the equipments and the procedures on how it process and the end result of the unit.

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TRAINEE'S SIGNATURE

Name: Francisco, Jonard Cyrus S.

Host Company/Department: STMicroelectronics / OPS 1 Assembly

Compiled WEEKLY JOURNAL (Week 11-13: July 1 – 16, 2025)

During my eleventh week, I continually updated the excel graphs daily and weekly. In the production area, I learned to identify and validate the issues of units on why it got rejected. I continually observed and learned Singulation and VMI processes and its purpose.

During my twelfth week, I continually updated the excel graphs daily and weekly. I was tasked with providing more graphs in excel by providing graphs of specific defects. There was a company visit from my practicum adviser to meet the supervisor via online interview and interviewed about the evaluation of practicum engagement and my performance. Then, I was preparing for the final presentation for the company which was presented to all OJTs within OPS 1 Assy and the audience are OJT's supervisors and HR.

During my thirteenth week, I was tasked with verifying unit dimensions using measurement of each unit then report to them whether the result of the unit will be passed or rejected. In my Power BI, I redesigned and created more reports to make it more seamless use. And lastly, I am creating a documentation and guide on how to use my Excel file I have created so the other employees will be able to understand and use it seamlessly.

Note:

July 2-3, 2025 (Week 11) – Leave

July 10, 2025 (Week 12) – Half-day (8am-12nn)



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DATE	July 1, 2025 - Week 11	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	EOL 2 Activities	SHIFT/TIME	0800H - 1730H

I learned to identify and validate the issues of units on why it rejects. It was started by sorting the units and pick the units that has markings which will be placed in a tray and stick them with adhesive to stay in place. After that, it will be placed in a microscope to view the rejected units and identify the issues and document the problem to be traced and solve the issue.

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DATE	July 4, 2025 - Week 11	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	EOL 2 Activities - Singulation	SHIFT/TIME	0800H - 1730H

I observed and gained some understanding of singulation process, where molded semiconductor strips are separated into individual units. This process relies on mechanical cutting to achieve clean separation while maintaining package integrity. I learned how critical parameters like cutting lifespan, blade alignment, and depth settings are adjusted to prevent defects. I will explore deeper detail of singulation process and next processes on how they verify the units.

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DATE	July 7, 2025 - Week 11	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Excel Update, Power BI Development, and EOL 2 Act	SHIFT/TIME	0800H - 1730H

I updated the excel and power bi data of yield and top defects,. Then, I continue to develop Power BI to continually develop the design and visualize defect and yield trends, but currently troubleshooting the formula of measure value that was unable to output the value.

Afterward, I observed and learned the Visual Manual Inspection (VMI) process, where operators examine singulated units for defects like cracks, scratches, or contamination using magnification tools. I learned how defects are categorized based on severity and recorded for quality tracking.

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TRAINEE'S SIGNATURE



## 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.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	July 8, 2025 - Week 12	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Power BI Development, Final Presentation for Company	SHIFT/TIME	0800H - 1730H

Updated the Power BI data, and preparation of final presentation for the company presentation.

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DATE	July 9, 2025 - Week 12	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Final Presentation, and Excel Graphs	SHIFT/TIME	0800H - 1730H

Finalizing of final presentation for the company presentation.

I was tasked on providing more graphs in excel by providing graphs of specific defects.

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DATE	July 10, 2025 - Week 12	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Final Presentation, and Excel Graphs	SHIFT/TIME	0800H - 1200H

I reported my final presentation to my peers and supervisor to check and provide feedback if changes needed so I can improve and refine my presentation.

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DATE	July 11, 2025 - Week 12	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Company Visit and Finalization of Final Presentation	SHIFT/TIME	0800H - 1730H

There was a company visit from my practicum adviser to meet the company and my supervisor via online for the evaluation of the practicum. The adviser interviewed my supervisor about the evaluation of practicum engagement and my performance in this company. After the interview, the supervisor evaluated the form of my performance in the company and I evaluated the form about the evaluation of the company. And then, both forms will be placed in the envelope and sealed the envelope for the final presentation of final report in my school.

I made preparations and practiced my presentation for the company presentation. And, my peer provided some last minute changes of my presentation and provided images of documentation on what we have done of my activities in the manufacturing area.

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DATE	July 14, 2025 - Week 12	AREA ASSIGNMENT	Onyx Room & OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Final Presentation of Company & Excel Updates	SHIFT/TIME	0800H - 1730H

The final presentation presented at Onyx room where all OJTs within OPS 1 Assy are presenters.

The panels are all OJT's supervisors and HR. All of us presented the presentation of delivered effectively to the supervisors and HR.

After the final presentation, I updated the excel and power bi data of yield and top defects,

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DATE	July 15, 2025 - Week 13	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	EOL 2 Activities & Improve Power BI Reports	SHIFT/TIME	0800H - 1730H

During the production area, I was tasked to verify unit dimension using measurement new parameter that was added to the machine. After listing down each units of their measurements, I reported back to my peers and reported the data to verify if the units are passed or rejected, and the result was passed.

During my Power BI development, I redesigned and created more reports to make it more seamless use.

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DATE	July 16, 2025 - Week 13	AREA ASSIGNMENT	OPS 1 Assembly (B1F1 EOL Mfg)
TASK	Documentation	SHIFT/TIME	0800H - 1730H

I am creating a documentation and guide on how to use the Excel file of yield trends and top defects so that other employees will be able to understand and use the Excel file I've made seamlessly. Then, I am finalizing the Excel file of all the formats, formulas, and structure of data before handing it over to my peers.

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TRAINEE'S SIGNATURE

## Appendix G

### Daily Time Record

 <b>MAPUA</b> MALAYAN COLLEGES LAGUNA				REVISION NO.: 00 REVISION DATE: May 10, 2016	
		DAILY TIME RECORD*			
NAME OF STUDENT		Jonard Cyrus S. Francisco		NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO	
MONTH		April		STMicroelectronics, Inc. / OPS I Assy	
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	MONTH
1					May
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22	8:00 am	5:30 pm	8.5		
23	8:00 am	5:30 pm	8.5		
24	8:00 am	5:30 pm	8.5		
25	Leave - MML Seminar				
26					
27					
28	8:00 am	5:30 pm	8.5		
29	8:00 am	5:30 pm	8.5		
30	8:00 am	5:30 pm	8.5		
31					
VERIFIED BY  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					
FORM OVPA 030H <small>COPIE (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM ADVISER</small>					
<small>THIS FORM IS AVAILABLE AT THE OVPA.</small>					

 <b>MAPUA</b> MALAYAN COLLEGES LAGUNA				REVISION NO.: 00 REVISION DATE: May 10, 2016	
		DAILY TIME RECORD*			
NAME OF STUDENT		Jonard Cyrus S. Francisco		NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO	
MONTH		June		STMicroelectronics, Inc. / OPS I Assy	
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	MONTH
1					July
2	8:00 am	5:30 pm	8.5		
3	8:00 am	5:30 pm	8.5		
4	Leave				
5	Leave				
6	Leave				
7					
8					
9	8:00 am	5:30 pm	8.5		
10	Leave				
11	Leave				
12	Leave				
13	8:00 am	5:30 pm	8.5		
14					
15					
16	8:00 am	5:30 pm	8.5		
17	Leave				
18	Leave				
19	Leave				
20	8:00 am	5:30 pm	8.5		
21					
22					
23	8:00 am	5:30 pm	8.5		
24	8:00 am	5:30 pm	8.5		
25	8:00 am	5:30 pm	8.5		
26	8:00 am	5:30 pm	8.5		
27	Leave				
28					
29					
30	Leave				
31					
VERIFIED BY  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					
FORM OVPA 030H <small>COPIE (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM ADVISER</small>					
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## **Appendix H**

### **Certificate of Completion**



**STMicroelectronics, Inc.**  
9 Mountain Drive, Light Industry and Science Park II  
Barangay La Mesa, Calamba City, Laguna 4027, Philippines  
Tel. +63 2 7792 5200

## **CERTIFICATE OF COMPLETION**

This is to Certify that

**Jonard Cyrus S. Francisco**

Has successfully completed **324 Hours** of On-the-Job Training  
with STMicroelectronics, Inc.  
from **April 22, 2025** to **July 31, 2025**

Given this **31st** day of July 2025 at  
**STMicroelectronics, Inc.**, Light Industry  
Science Park II, Calamba City, Laguna.



**JOVY P. ORDONIA**  
**HR Talent Acquisition**  
**Human Resources Department**