COLLEGE OF COMPUTER AND INFORMATION SCIENCE

Academic Year 2024 – 2025

CS199F (CS PRACTICUM) NARRATIVE REPORT

Submitted by:

PINEDA, Zoe Aleczandra A.

Submitted to:

Professor Jonalyn G. Ebron

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

The student interned at STMicroelectronics, a global leader in semiconductor manufacturing and innovation. STMicroelectronics is renowned for its highly skilled engineers and researchers dedicated to delivering cutting-edge technology solutions with a strong focus on quality and sustainability. Headquartered in Geneva, Switzerland, STMicroelectronics was founded with a mission to drive progress in electronics by enabling smarter, safer, and more energy-efficient devices. The company specializes in designing and producing a broad range of semiconductor products, including microcontrollers, sensors, power management ICs, and analog devices, serving diverse industries such as automotive, industrial, consumer electronics, and communications. STMicroelectronics' innovative approach ensures its products are compatible with the latest technological standards and platforms, including IoT, AI, and 5G applications. Committed to advancing operational excellence and environmental responsibility, STMicroelectronics is a key partner for businesses aiming to enhance performance, connectivity, and sustainability through state-of-the-art semiconductor solutions.

STMicroelectronics offers a comprehensive portfolio of semiconductor solutions, including STM32 microcontrollers, MEMS sensors, power management ICs, and advanced analog devices. Their extensive product range supports critical applications in automotive safety systems, industrial automation, consumer electronics, and telecommunications infrastructure.

STMicroelectronics proudly serves a diverse and prestigious client base, including leading automotive manufacturers such as BMW and Tesla, industrial automation companies like Siemens,

consumer electronics brands such as Samsung, and major telecommunications providers including Ericsson and Huawei. Their innovative technologies enable enhanced performance, energy efficiency, and connectivity across a wide variety of devices and systems. STMicroelectronics is committed to delivering high-quality, reliable semiconductor products that empower customers to develop smarter, safer, and more sustainable solutions for the future.

Nature of Assignments or Tasks Given

At the beginning of the internship, the student regularly met with their assigned supervisor to discuss the scope of the practicum, clarify objectives, and identify the areas where support was most needed. These meetings helped establish a clear understanding of expectations and allowed the student to align their efforts with the department's current needs and ongoing projects.

Due to software development constraints encountered by the students in coordination with the company's IT department, their primary responsibilities during the initial half of the internship involved assisting supervisors in the production area. Tasks included supporting activities related to ST's 5S principles of Sort, Systematize, Sanitize/Standardize, Sweep, and Self-discipline, which aim to maintain an organized, clean, and efficient workplace. The student also contributed to rebuilding devices such as pogo pin test equipment. Once the IT-related restrictions were resolved, the student and their fellow interns were able to formally begin development on their assigned project.

The technologies utilized during the internship included HTML, CSS, JavaScript, and Python. The system focused on foundational web development languages, aligning with the IT department's established tools and frameworks. The intern used Python, and specifically Flask, to facilitate the backend functions.

To facilitate the development process, the intern primarily used Visual Studio Code as the Integrated Development Environment (IDE), chosen for its wide array of extensions, built-in tools, and flexibility that helped boost productivity. Despite the limited tools available, the students demonstrated resourcefulness and initiative, making the most out of what was accessible to her. Even with constraints in software availability and system access, the student showed proactiveness and creativity, configuring their environment, integrating extensions, and leveraging online resources to ensure smooth development. This experience highlighted the student's ability to adapt, solve problems, and push forward effectively, even in a restricted development setup.

Total Hours Rendered

In total, the student completed 324 hours during the internship, from April 22, 2025 to July 21, 2025. This included 8 hours dedicated to orientations conducted by various department representatives, which provided the student with a deeper understanding of the company’s culture. After the introductory orientations, the student was briefed across 24 hours on the rules and regulations of ST’s manufacturing areas. Key discussions focused on safety training and foundational knowledge of how these areas operate.

The student then spent 17 hours being introduced to the tools and methodologies used by the department. This involved the supervisor providing an in-depth explanation of how the Test Product Engineering (TPE) department functions, including a breakdown of the roles and responsibilities of each subgroup within the department.

Additionally, the student participated in 17 hours of comprehensive training in Power BI fundamentals, during which she created insightful data analytics dashboards. What made this experience particularly valuable was the use of actual data from the TPE department, allowing the student to simulate real-world reporting scenarios. This made the training feel less like a typical classroom project using dummy data and more like genuine industry work with meaningful impact.

The student received 19 hours of training in basic debugging and hardware repair techniques, which proved essential given that the department they were assigned to is responsible for maintaining and repairing hardware used for testing integrated circuits (ICs) and load boards. This hands-on experience provided the student with a broader understanding of the company's operations beyond software development, highlighting the importance of cross-functional knowledge in a highly technical environment.

In addition, the student underwent 85 hours of training in CMMS (Computerized Management Maintenance System) and was introduced to the Satellite Storage Room (SSR). The SSR is a designated area within the production floor where KGUs and load boards are physically stored, while the CMMS serves as an inventory management system for tracking and maintaining these test assets.

Furthermore, the students participated in 30 hours of coaching sessions with technicians, engineers, and managers, which offered valuable insights into industry practices, teamwork, and technical problem-solving from experienced professionals.

Most of the student's time—a total of 124 hours—was dedicated to the development of the KGU inventory system. This involved the gathering of user requirements, planning, system design, coding, testing, and ultimately, the deployment of the new inventory management system.

Table 1.

Summary of Hours Rendered

Task	Hour Count
HR Orientation	8
Manufacturing Orientation	24
Introduction to TPE Tools and Methodologies	17
Power Bi Training	17
Basic Debugging Techniques / HW Repair	19
CMMS and SSR Training	85
Coaching sessions with technician, engineer, and manager	30
Website development (HTML, JavaScript, CSS) and project completion and presentation	124
Total	**324**

Presentation of Output

KGU Management System

Known Good Units (KGUs) are components, devices, or products that have been thoroughly tested, verified, and confirmed to be fully functional, meeting all quality and performance standards. Due to their critical role as reliable references in testing, manufacturing,

and troubleshooting, effective management of KGUs is essential to maintain production efficiency and quality assurance.

Recognizing this importance, the student along with 2 other interns in the TPE department were assigned to enhance the existing KGU inventory management system used in the production area. The project began with the student's supervisor—who also acts as the primary end user—providing a detailed overview of the current system's operation, along with its key limitations. Although functional, the existing system suffers from an outdated user interface, limited error handling capabilities, and inefficient search and tracking features, all of which hinder smooth daily operations and create significant challenges for users. The discussion with the student's supervisor allowed the student to understand what the new system needed in terms of functionality and overall experience.

Once the system requirements were clearly defined, the student and their team initiated the development of the new KGU management system. The goal of this project was to streamline and modernize the workflow for engineers, particularly in tasks such as searching for specific KGUs, performing withdrawals, and managing endorsements. The purpose was to enhance overall efficiency, reduce manual errors, and create a user-friendly interface that supports day-to-day operations in the production environment.

The new KGU management system is composed of the following key modules: enrollment of new KGUs, endorsement and withdrawal of existing KGUs, transaction history, inventory viewing, user authentication, and admin responsibilities.

KGU Enrollment

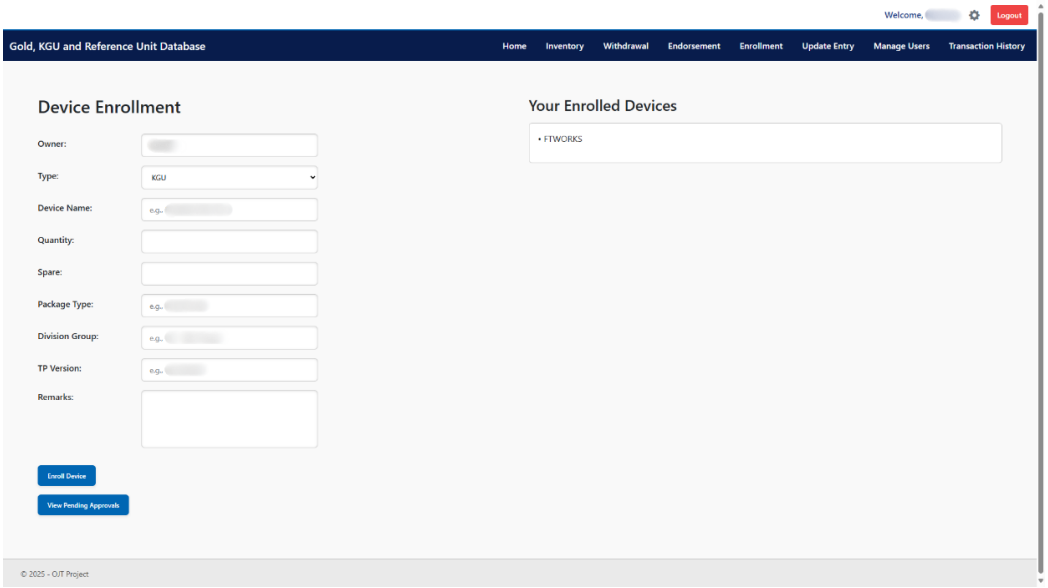


Figure 1. KGU Enrollment Page

The enrollment module allows users to add new KGUs to the system, which are then subjected to approval by the admins of the system before being added to the database.

KGU Endorsement

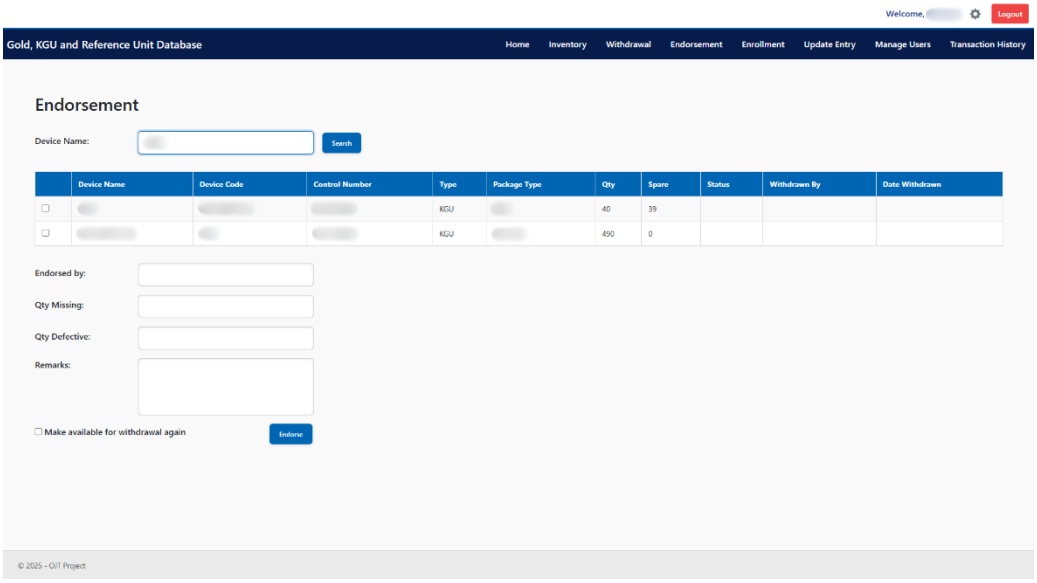


Figure 2. KGU Endorsement Page

The endorsement module involves the depositing of KGUs in the inventory system.

KGU Withdrawal

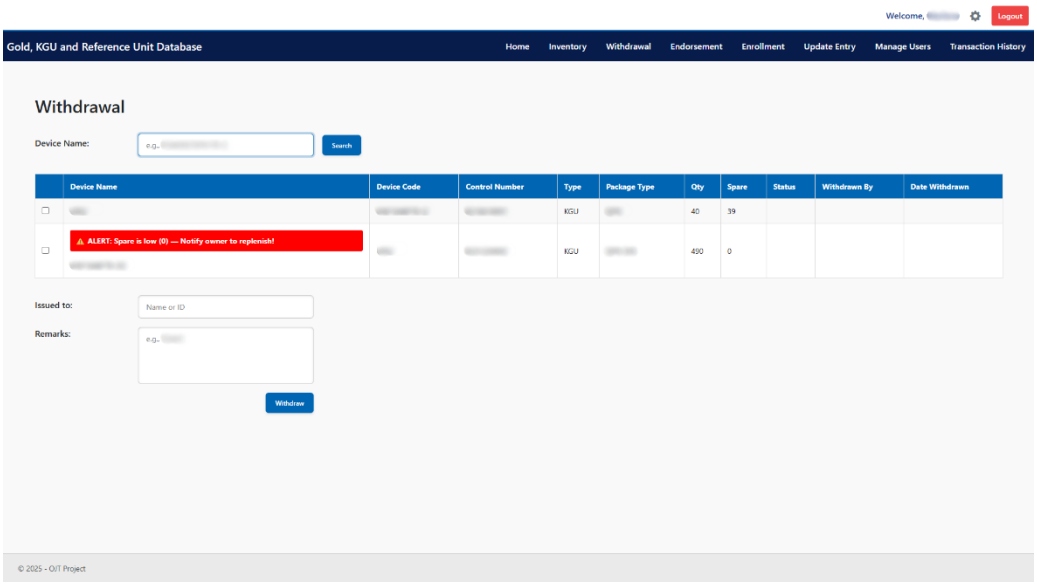


Figure 3. KGU Withdrawal Page

The withdrawal module allows users to withdraw existing KGUs from the database.

KGU Inventory View

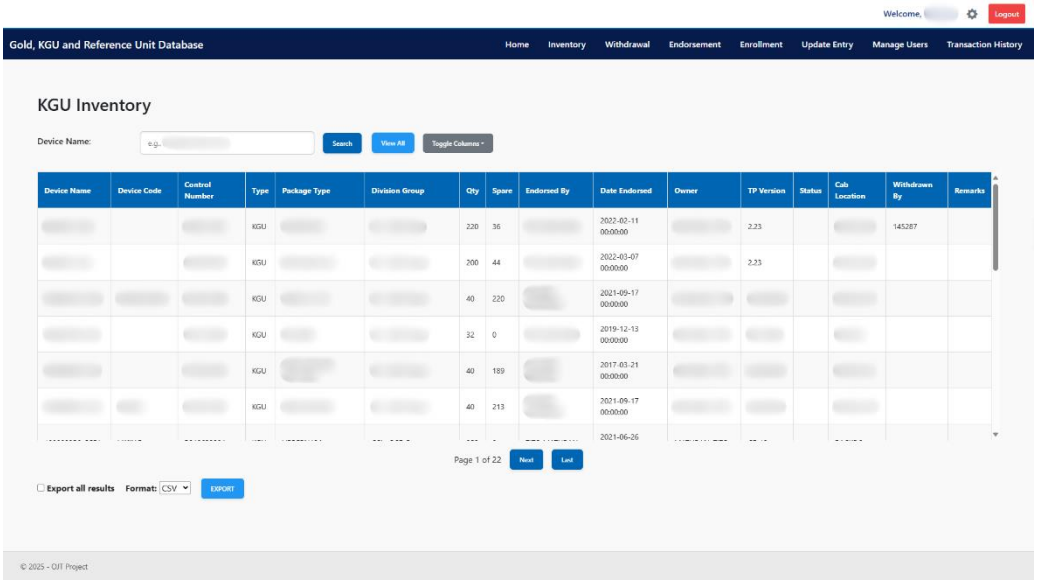


Figure 4. KGU Inventory

The inventory module allows users to view the content of the KGU database. It features an export button that allows only admins to download the contents of the inventory table and save it in an excel or CSV file. It also allows users to view only the columns they want to see, improving user experience.

User Authentication

As seen in Figure 5, 6, and 7, the user authentication module consists of the pages for login, logout, and editing individual user settings.

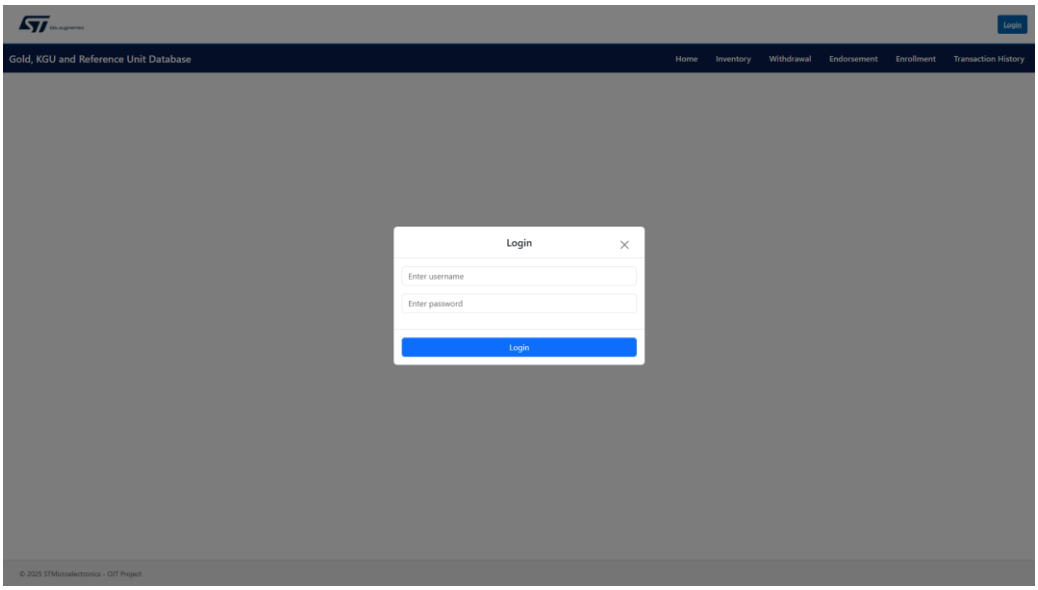


Figure 5. Login Modal

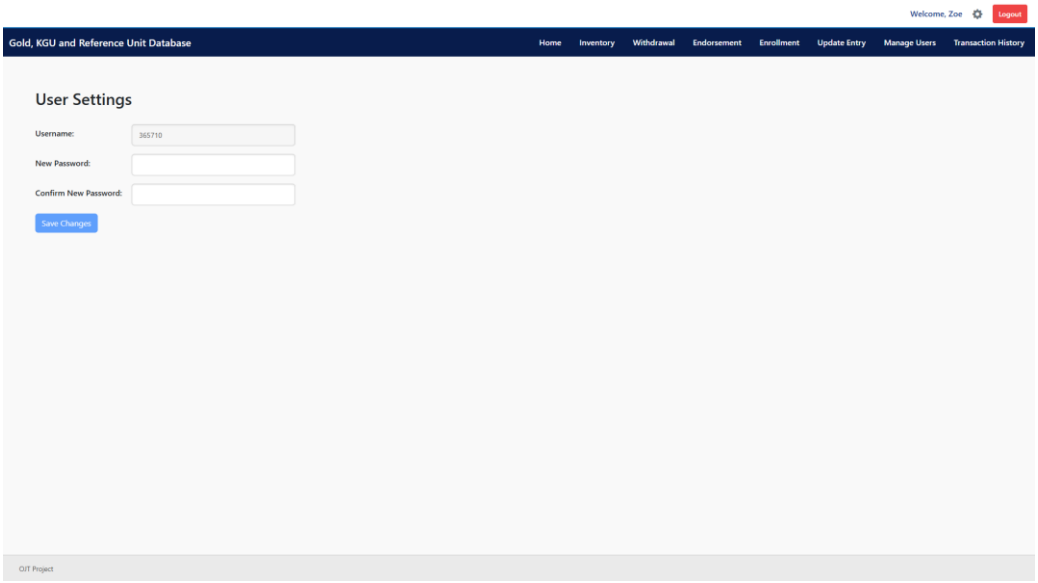


Figure 6. User Settings Page

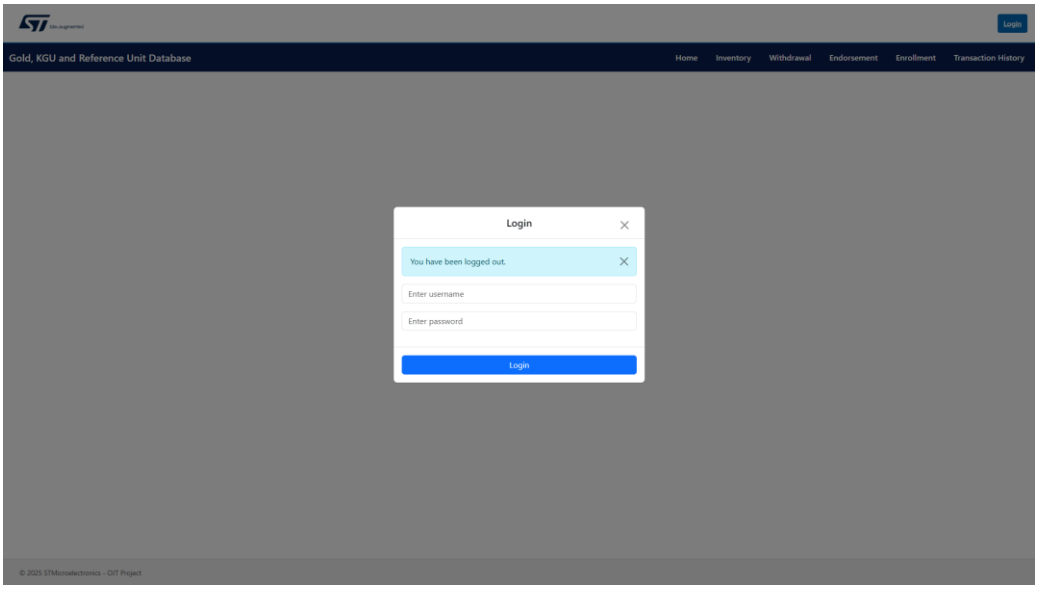


Figure 7. Logout

Admin Responsibilities

There are several actions that can only be done by users with admin-level access. Admins can (1) approve KGUs that have been endorsed into the system, (2) update existing KGU data, (3) add new user accounts, and (4) manage existing user accounts.

The Pending Approvals page allows administrators to review and approve newly enrolled KGUs before they are officially recorded in the system.

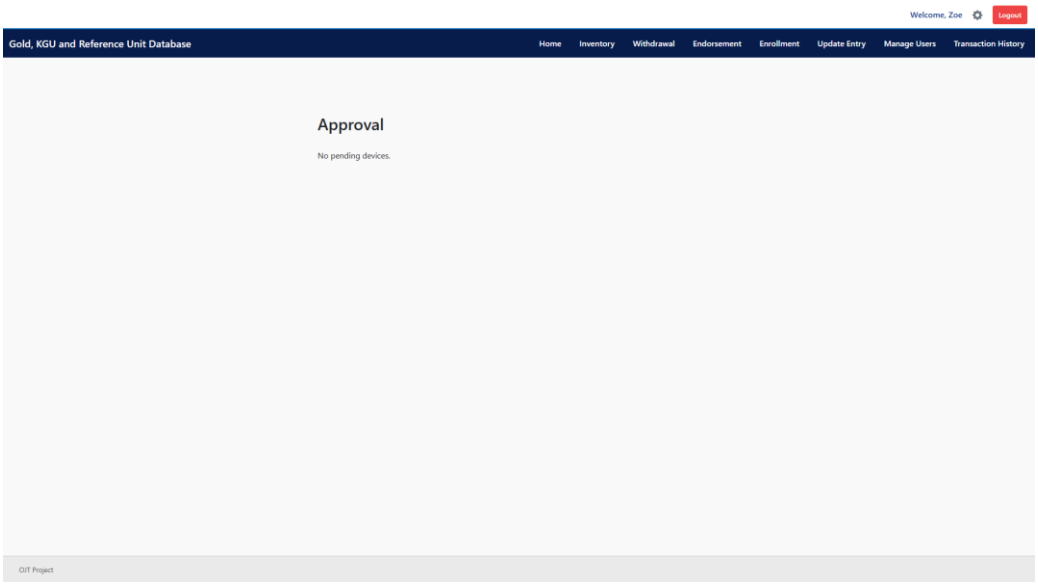


Figure 8. Endorsement Approval Page (Empty)

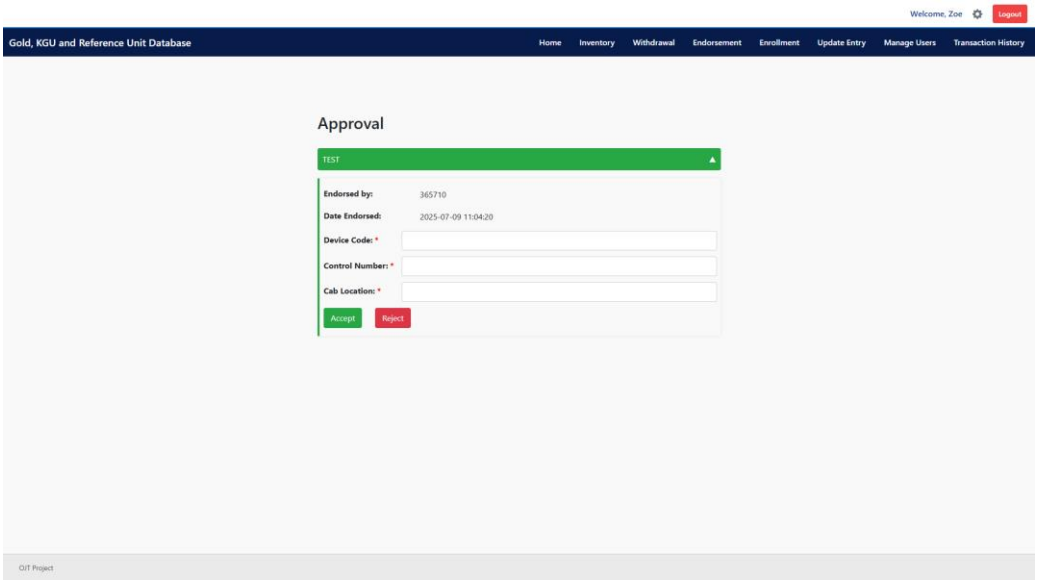


Figure 9. Endorsement Approval Page with devices of pending approval

The Update Status page enables admins to change the current condition or usage status of a KGU, such as marking it as available, in use, under repair, or decommissioned. It is also used to correct or update existing KGU details, including identification codes, locations, or assigned users.

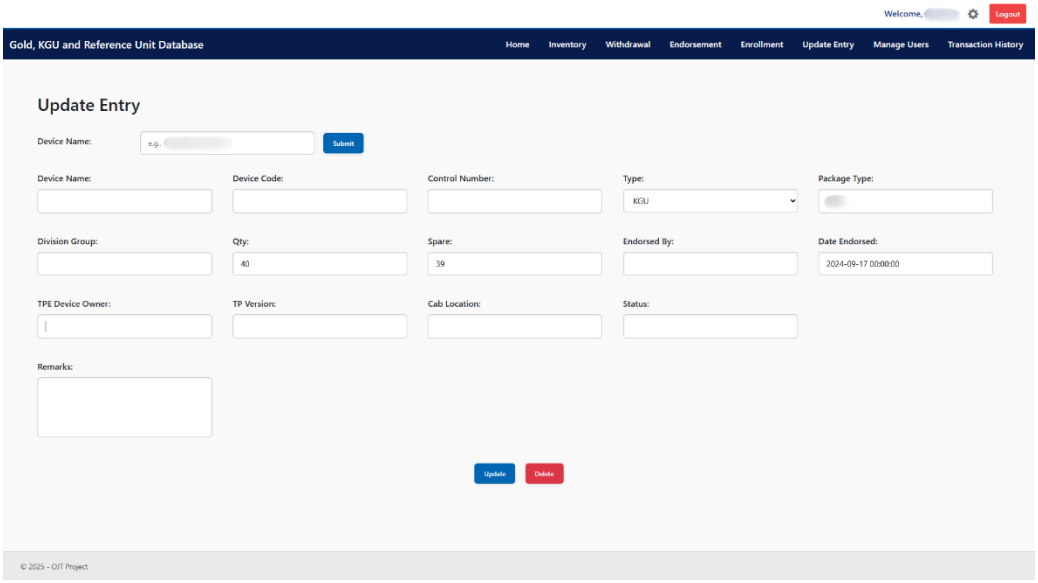


Figure 10. Update KGU Entry Page

Lastly, the User Management page allows administrators to view all registered users, assign roles, and manage system access levels to ensure secure and efficient operations.

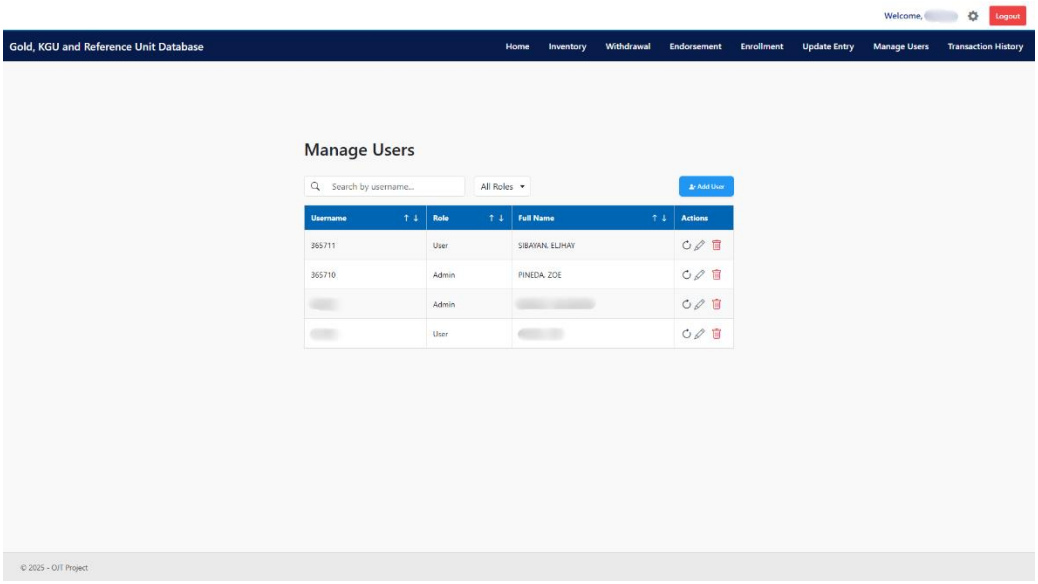


Figure 11. Admin-side User Management Page

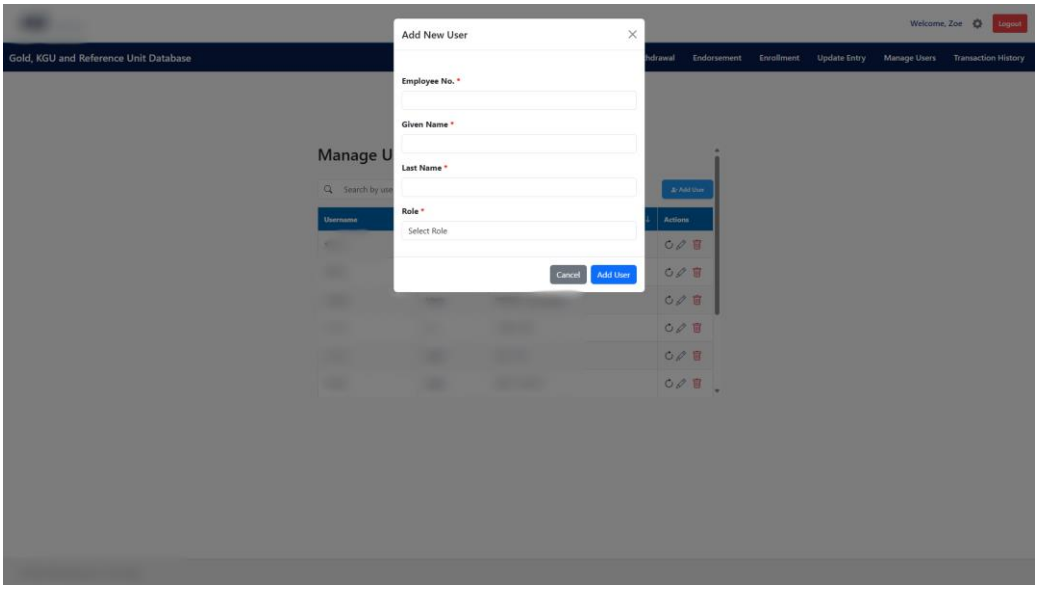


Figure 12. Admin-side Add New User Modal

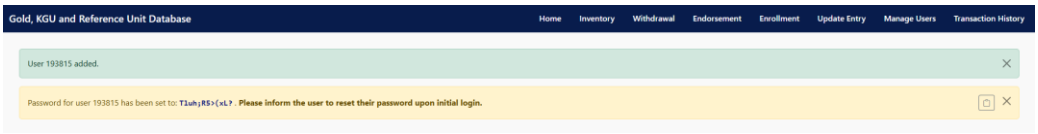


Figure 13. Random Password Generation upon creation of new user account

Synthesis of the Practicum Engagement

Learnings

Throughout the course of the internship, the student acquired a wide range of technical and interpersonal skills that contributed significantly to their professional growth. On the technical side, the student strengthened their proficiency in front-end and back-end web development using HTML, CSS, JavaScript, and Python with the Flask framework. They gained firsthand experience in developing a functional web-based inventory management system, from gathering user requirements to coding, testing, and deploying the final output. Additionally, the student was trained in Power BI, where they learned how to create interactive dashboards and data visualizations using actual operational data from the Test Product Engineering (TPE) department. This experience provided not only technical familiarity with business intelligence tools but also an appreciation of how data supports decision-making processes in a real-world setting.

The student also received training in basic debugging and hardware repair techniques, which offered valuable insights into the physical components used in semiconductor testing. Understanding how devices such as integrated circuits (ICs), load boards, and pogo pins operate allowed the student to appreciate the role of hardware in the broader testing and development pipeline. Familiarization with tools such as the Computerized Maintenance Management System (CMMS) and procedures in the Satellite Storage Room (SSR) further reinforced the student's knowledge of inventory tracking and asset management.

Beyond technical learning, the student developed soft skills essential for workplace success. They improved in communication, collaboration, and adaptability through interactions with supervisors, engineers, technicians, and fellow interns. Coaching sessions helped enhance their ability to accept feedback, think critically, and contribute meaningfully to team discussions. These

learnings collectively enriched the student's understanding of how engineering work is executed in an industrial setting and prepared them for future roles in the tech industry.

Realizations

One of the most impactful realizations for the student during the internship was the importance of being adaptable, proactive, and open to continuous learning. Entering the internship with the expectation of a software-focused experience, the student quickly discovered that industry work is often shaped by real-world limitations such as tool restrictions, IT policies, or hardware availability. Instead of being discouraged, the student and their peers learned to work within these constraints by being resourceful—utilizing tools like Visual Studio Code, maximizing available online resources, and collaborating to find solutions independently.

The student also realized that effective software development cannot happen in isolation. It requires a broader understanding of how systems interact, particularly in an environment like STMicroelectronics where software supports hardware-based production workflows. Exposure to the operational side of the business, including the SSR and CMMS, helped the student see the real-world application of their work and how it fits into the overall structure of the company. Understanding how users engage with systems, what pain points they encounter, and how to translate these into design decisions was an invaluable lesson in building user-centered solutions.

Moreover, the student came to appreciate the importance of teamwork, documentation, and process discipline. Software development in a professional environment requires not just writing code, but also maintaining communication with stakeholders, documenting progress, and following version control protocols. These realizations reshaped the student's mindset from that of a classroom developer to someone capable of contributing to a production-grade system in a corporate setting.

Conclusion

The internship at STMicroelectronics was a transformative experience for the student—one that provided a comprehensive view of how both software and hardware are integrated in the semiconductor industry. It offered more than just technical training; it introduced the student to the complexities of working in a global company, the importance of understanding end-user needs, and the discipline required to deliver quality outputs under real-world conditions.

Through this practicum, the student gained valuable experience in full-stack development, system analysis, and team-based project management. They also developed a more holistic view of how software can support physical processes in production environments. Working on the KGU management system enabled the student to apply their academic knowledge to a real use case, making meaningful contributions that addressed actual challenges faced by engineers in the department.

Beyond the technical outcomes, the internship solidified the student's professional values—adaptability, responsibility, collaboration, and a commitment to continuous learning. It helped the student see the broader purpose of their role as an IT practitioner: to build systems that improve lives, optimize processes, and enable innovation. With this experience, the student moves forward with greater confidence, prepared not only to tackle future projects but also to grow as a thoughtful, capable, and impactful contributor to the tech industry.

Appendices

Appendix A

Competency-Based CV

Zoe Aleczandra A. Pineda

+63 976 032 1580 | zoepineda47@gmail.com | GitHub | LinkedIn

EDUCATION

Mapúa Malayan Colleges Laguna — **Expected October 2025**
Bachelor of Science in Computer Science — *Cabuyao, Laguna*

- Cumulative GWA: 1.381547; Dean's Lister (2021-2024) and President's Lister (2023-2024); Candidate for *Magna Cum Laude*;
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Machine Learning, Data Analytics, Information Assurance and Security

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** CompTIA ITF+, AWS Academy Cloud Foundations Graduate, Google Cloud Essentials
- HTML, CSS, Flask, React, Bootstrap
- Python, Javascript, Java, C#, C++, MS SQL, MySQL
- Microsoft 365, Google Workspace, Asana, Slack
- Git, GitHub

ACHIEVEMENTS & EXTRACURRICULARS

Junior Philippine Computing Society - Mapúa Malayan Colleges Laguna Chapter — **October 2024 - Present**
Director for Membership

- Cleaned and structured member data in Excel to enable faster and more reliable information retrieval.

Microsoft ASEAN AI for Accessibility Hackathon 2024 2nd Place — **June 2024**

- Led a 4-member team in developing and pitching an AI-powered mobile app to address the lack of accessible speech therapy for children with speech disabilities in the Philippines; secured **2nd place** in the competition.

WORK EXPERIENCE

Software Engineer at STMicroelectronics Inc. — **April 2025 – Present**

- Rebuilt an internal inventory system from the ground up using Flask, HTML, CSS, and JavaScript, addressing UX, reliability, and data-handling limitations of a legacy tool.
- Structured data workflows with Pandas and NumPy, enabling efficient CSV-based storage and retrieval in the absence of a traditional database.
- Developed Python scripts to convert unstructured text files into Excel spreadsheets with charts using Matplotlib and openpyxl, streamlining reporting and visualization.
- Applied agile-inspired practices: led client prototype reviews, gathered stakeholder feedback, and iteratively refined system features based on real-world usage needs.

Virtual Assistant turned Junior Mobile Developer at Viewo — **July 2023 – Oct 2023**

- Delivered remote administrative support across multiple projects.
- Managed business communications and conducted targeted research.
- Created app mockups using Figma for UI/UX planning.
- Contributed to mobile app development using Flutter and Dart.

PROJECTS

AgriKA — **September 2024 – Present**

- Worked with a 4-person team to develop a real-time rice yield prediction web app using Flask to support Filipino agriculturists.
- Built an optimized CNN-LSTM deep learning model with Keras, Pandas, and NumPy for accurate forecasting.
- Designed interactive data visualizations using Chart.JS for user-friendly analytics.
- Utilized GitHub for version control and collaborative development, ensuring efficient project tracking and smooth team integration.
- Selected as a candidate for the Institutional Research Colloquium, recognizing project innovation and impact.

Haste-urant: A Restaurant Order Management System — **January 2024 – July 2024**

- Co-developed a web-based order management platform for a local unli-wings restaurant.
- Built and maintained server-side functionality, ensuring seamless data flow and operations using Python and PHP.
- Designed a dynamic analytics dashboard with Pychart and Matplotlib, leveraging Pandas and NumPy to provide actionable business insights

Facial Recognition-based Attendance Log — **November 2023**

- Developed a facial recognition attendance system using Python and Tkinter, featuring image upload and live photo capture capabilities.
- Automated attendance tracking via face encoding and CNN, enhancing accuracy and minimizing manual entry.
- Utilized OpenCV and Pillow libraries for image processing and real-time recognition

Appendix B

Endorsement Letter

MAPÚA MALAYAN COLLEGES LAGUNA

CCIS 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 **Ms. Zoe Aleczandra A. Pineda** be permitted to have **her** 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 **she** 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,

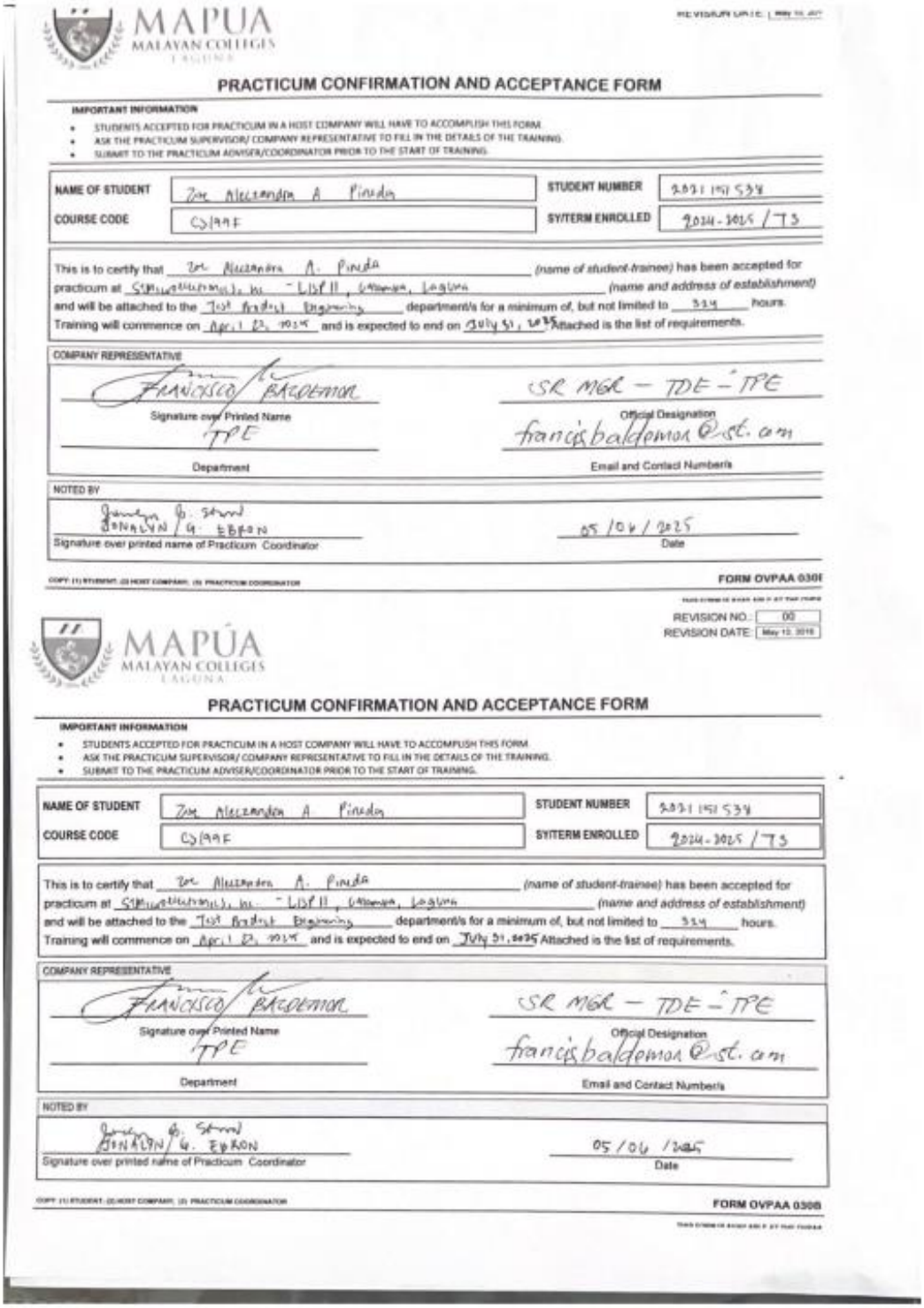
Jonalyn G. Ebron

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 C

Practicum Acceptance Form



MAPUA
MALAYAN COLLEGES
LAGUNA

REVISION UNIT: [illegible]

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	Zoe Alexandra A. Pineda	STUDENT NUMBER	2021 151 534
COURSE CODE	CSIPPE	SY/TERM ENROLLED	2024-2025 / T3

This is to certify that Zoe Alexandra A. Pineda (name of student-trainee) has been accepted for practicum at Synthesis Solutions, Inc. - LSP II, Calamba, Laguna (name and address of establishment) and will be attached to the Test Analyst Engineering department/s for a minimum of, but not limited to 334 hours. Training will commence on April 22, 2025 and is expected to end on July 31, 2025 Attached is the list of requirements.

COMPANY REPRESENTATIVE

FRANCISCO BALDEMOR	SR MGR - TDE - TPE
Signature over Printed Name	Official Designation
TPE	francis.baldemor@st.com
Department	Email and Contact Number/s

NOTED BY

JONALYN G. EBRON	05/06/2025
Signature over printed name of Practicum Coordinator	Date

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

FORM OVPAA 0308

REVISION NO.: 00
REVISION DATE: May 12, 2016

MAPUA
MALAYAN COLLEGES
LAGUNA

PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

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NAME OF STUDENT	Zoe Alexandra A. Pineda	STUDENT NUMBER	2021 151 534
COURSE CODE	CSIPPE	SY/TERM ENROLLED	2024-2025 / T3

This is to certify that Zoe Alexandra A. Pineda (name of student-trainee) has been accepted for practicum at Synthesis Solutions, Inc. - LSP II, Calamba, Laguna (name and address of establishment) and will be attached to the Test Analyst Engineering department/s for a minimum of, but not limited to 334 hours. Training will commence on April 22, 2025 and is expected to end on July 31, 2025 Attached is the list of requirements.

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FRANCISCO BALDEMOR	SR MGR - TDE - TPE
Signature over Printed Name	Official Designation
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Department	Email and Contact Number/s

NOTED BY

JONALYN G. EBRON	05/06/2025
Signature over printed name of Practicum Coordinator	Date

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

FORM OVPAA 0308

Appendix D

Liability Waiver

MAPÚA
MALAYAN COLLEGES
LAGUNA

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, Zoe Alexandra A. Pineda, 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 9 Mountain Drive, LISP, Calamba, Laguna, under the following terms and conditions:

a. That the practicum training will commence on Apr. 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 24 day of April 2025.

Zoe Alexandra (Alexyde) Pineda
Signature over printed name of **Student Trainee**

WITH OUR CONSENT:

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

NOTED BY:

JONALYN G. EBRON
Printed Name and Signature of **Practicum Adviser/ Coordinator**

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

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM ADVISER; (4) PRACTICUM COORDINATOR

FORM OVPAA 030C

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Appendix E

Training Plan

MAPÚA MALAYAN COLLEGES LAGUNA

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

TRAINING PLAN

NAME	PINEDA, ZOE ALECZANDRA A.	COURSE CODE	CS199F
PROGRAM & STUDENT NO.	BSCS / 2021151538	COURSE TITLE	CS PRACTICUM

STUDENT OUTCOMES

CO1. Identify, analyze, and design business process solutions to the problem faced by the organization.
CO2. Apply the different concepts of systems analysis and design, software engineering, database management, and programming courses in the problem solving process in the organization, and
CO3. Acquire new knowledge and experience while in the organization

AREAS / PHASES OF TRAINING AND TIME ALLOTMENT

1. HR Orientation
2. Manufacturing Orientation - 24 hours
3. Introduction to tools and methodologies - 17 hours
4. PowerBI Training - 17 hours
5. Basic debugging techniques/hw repair electrical/mechanical strategy - 120 hours
6. CMMS and SSR Training - 20 hours
7. Coaching sessions with technician, engineer, and manager - 10 hours
8. Website development (HTML, CSS, Javascript) and project completion and presentation - 140 hours
9. Loadboard schematic design, auto components testing project, correlation tool project, KGU management website, final presentation 140 hours

EVALUATION GUIDELINES & COURSE OUTCOMES

DEMONSTRATION OF SOFT SKILLS (40%)	DEMONSTRATION OF TECHNICAL SKILLS (60%)
KEY AREAS	**KEY AREAS**
COMMUNICATION SKILLS (20%)	Company orientation **SKILLS (X%)** — COMPANY ORIENTATION - Able to understand company standards and safety protocols - Able to use PowerBI for data visualization - Able to identify key manufacturing tools and processes
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	TPE Department **SKILLS (Y%)** — TPE DEPARTMENT - Able to perform basic debugging and hardware repair - Able to apply CMMS and SSR knowledge - Able to participate in technical coaching and mentoring sessions
Prepares and presents reports using Information and Communication Technology (ICT)	
PROFESSIONAL DEPORTMENT (20%)	Software Development **SKILLS (Z%)** — SOFTWARE DEVELOPMENT - Able to deliver bug-free modules on time - Able to integrate and implement new system modules - Able to write technical documents - Able to write user manuals - Able to develop and implement a plant-relevant project - Able to deliver a final project presentation effectively
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	
INITIATIVE (+5%)	**INITIATIVE (+5%)**
Volunteers to perform tasks beyond routine tasks	Volunteers to perform tasks beyond routine tasks

CONFORME	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY
05/24/2025		GINALYN G. EBRON 05/06/2025	AURELIA SHARLENE DELOS SANTOS 05/06/2025	GINALYN G. EBRON 05/06/2025
SIGNATURE OVER PRINTED NAME OF STUDENT / DATE	SIGNATURE OVER PRINTED NAME OF PARENT OR GUARDIAN / DATE	SIGNATURE OVER PRINTED NAME OF PRACTICUM SUPERVISOR / DATE	SIGNATURE OVER PRINTED NAME OF PRACTICUM ADVISER / DATE	SIGNATURE OVER PRINTED NAME OF PROGRAM CHAIR / DATE

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

FORM OVPAA-030D

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Appendix F

Complete Weekly Journal

Malayan Colleges Laguna
A MAPÚA SCHOOL

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

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-April 28	AREA ASSIGNMENT	TPE
TASK	Orientations	SHIFT/TIME	8:00AM-5:30PM

My first week at STMicroelectronics mostly involved several sessions of orientations to inform me and other OJTs about how the company runs. Different speakers and trainers talked about the company's values, the do's and don't's in terms of cybersecurity, and how we are expected to act within the production areas. We were also introduced to our supervisors and the other people in our department. Unfortunately, I was not able to start on any software development projects during this week due to not having a workstation at this time. I learned a lot about how the corporate world works, though, and I'm looking forward to learning more about the semiconductor industry and meeting new people.

TRAINEE'S SIGNATURE

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

FORM OVPAA 030G

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Malayan Colleges Laguna
A MAPÚA SCHOOL

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

DAILY JOURNAL

IMPORTANT INFORMATION

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DATE	April 29 - May 5	AREA ASSIGNMENT	TPE
TASK		SHIFT/TIME	8:00AM-5:30PM

This week mostly involved getting to know our supervisors and how our department operates. My team was informed about the project we will be developing during our time at the company. We will be developing a new and improved version of their existing inventory management system, with one of us working on the frontend, and me and another member working on the backend. Due to the abundance of restrictions within the company's IT department, our supervisors warned us that most languages and external software that we would need for development would most likely be turned down. Because of this, we were not able to start on the development yet as we were waiting for approval from the IT department.

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

FORM OVPAA 030G

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Malayan Colleges Laguna
A MAPÚA SCHOOL

REVISION NO.: 00
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DATE	May 6 - 12, 2025	AREA ASSIGNMENT	TPE Department
TASK		SHIFT/TIME	8:00AM-5:30PM

The third week of my stay at ST involved learning about the department's core activities. Due to the IT department's restrictions, we still could not start on the software development project we were given. Despite this, our supervisors instead oriented us on the electrical engineering practices that they do everyday within the production area. I was able to see firsthand how they work with the hardware used to test ST's products, as well as a demo of their existing inventory system. This allowed me and my team to assess the problems that we need to address in our improved system. The existing system left a lot to be desired, such as outdated UI/UX and faulty error messages. After seeing the system, my team and I brainstormed several ideas on how to address these problems, compiled them into a document, and pitched it to our supervisor. They were in favor of the updates, so hopefully we will be starting the development as soon as the IT department approves our proposal. In summary, my eyes were opened to the operations within the production area. Given that I'm a Computer Science student, I'd never really given too much thought about what happens in the production area of a company. But this past week has expanded my view to consider not only how to analyze data and develop systems, but to also understand how this data is collected in the first place and how users interact with their systems every day. I've gained a deeper appreciation for good systems because I've seen firsthand how poorly designed systems can take a toll on not only a company's efficiency, but the overall experience for those using the systems.

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Malayan Colleges Laguna
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DAILY JOURNAL

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DATE	May 13 - May 19, 2025	AREA ASSIGNMENT	TPE (Test Product Engineering)
TASK	PowerBI	SHIFT/TIME	8:00AM-5:30PM

This week I was able to attend the first two days of a 4-Day PowerBI training session. We were given an in-depth explanation of all the different ways data can be cleaned, transformed, and stored in PowerBI. Being a Computer Science student, this excited me because I was already familiar with the various ways of preprocessing data. But what truly sparked my interest was PowerBI's intuitive dashboard creation features. I was impressed by how easily I was able to create visualizations, like charts and cards, simply by dragging and dropping data, effectively turning this raw information into meaningful insights. Furthermore, our instructor informed us that one of the requirements to complete the training was to present a dashboard using our own dataset. For this, I tried creating a dummy dataset containing employee information. Through the process, I learned that the quality and relevance of your data play a crucial role in how effectively your dashboard communicates insights. Every data point needs to serve a purpose to ensure the visualizations are not only accurate but also meaningful to the end user. During this week, another one of our superiors pitched us an idea for a software system that could be useful in the production area. Using data collected by the testers within production, we would be responsible with visualizing the state of the hardware being tested. For example, the system would show whether each unit is passing/failing in terms of quality, or if the tester itself is the problem. This idea was very intriguing to me and my team, However, due to ongoing software and programming language restrictions within ST's IT department, we still could not start on development during this week.

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DATE	May 20 - May 26, 2025	AREA ASSIGNMENT	TPE (Test Product Engineering)
TASK	PowerBI	SHIFT/TIME	8:00AM-5:30PM

My fifth week at STMicroelectronics focused heavily on data visualization and system planning. On May 20, one of our superiors, sir Sonny, demonstrated how the testers and sorters for burn-in boards (a type of tester in the production area) function. He also pitched the idea of creating a Power BI dashboard to help monitor the socket status of each board. On May 21, we continued with Day 3 of our Power BI Training, where we were given dummy data to practice building real dashboards. We were separated into groups of three, and we had to give a presentation demonstrating how we cleaned our dataset, transformed the data, and how our dashboard worked. It was a very insightful experience as I had to work with people I had just met that day, and it allowed me to observe how other people approached the problem we had to solve. On May 22, we completed the final day of the training and individually presented dashboards we created using data from our respective departments. On May 23, our team received the go signal to proceed with our main project, so we attempted to start development that day. There were still several issues with the software and languages we could user, however, so we had to wait for the IT department's approval. Overall, this week strengthened my understanding of data visualization through PowerBI and gave me a glimpse into hardware-related project tracking, and allowed me to apply what I learned in a real-world setting.

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DAILY JOURNAL

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DATE	June 23, June 24, June 27	AREA/ASSIGNMENT	Test Product Engineering Dept.
TASK	Python Automation Scripts and Web Development	SHIFT/TIME	8:00AM - 5:30PM

My tenth week at STMicroelectronics, Inc. involved the development of two automation scripts using Python, and making progress on my team's main project, a web-based inventory management system. To provide some context, I was not present at the company during weeks 6-9 because my thesis group revised our manuscript and system in preparation for our final defense. During this time, my teammates at STMicro had started on the frontend and core backend parts of the inventory management system. When I came back during week 10, we had a meeting for my team to brief me on how the developed system operates and what the system is still lacking. As a group, we mutually decided that I would be in charge of developing whatever else was missing in the system. On June 23, I implemented a user authentication system that stores the user information in a csv and encrypts the credentials as opposed to hard coding it in the codebase. We used csv files because we do not have access to any relational database software like MS SQL. I was also tasked by a supervisor to create a Python script that automates the retrieval of certain light spectrum data in a .log file and convert it into an excel file with a chart corresponding to the collected light spectrum data. On June 24, I created another script similar to the one I created on June 23, but this time, the raw light spectrum data was stored in a disorganized csv file. So my supervisor asked me to also create a script for that kind of use case wherein it takes raw csv data and converts it into a more comprehensible excel file with a chart. On June 27, I implemented a user management page that allows the admins to create and manage user accounts. Overall, this week felt really rewarding. It's a relief to be able to code after getting ST's approval.

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Malayan Colleges Laguna
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DATE	June 30 - July 3, 2025	AREA ASSIGNMENT	Test Product Engineering Dept.
TASK	Web Development	SHIFT/TIME	8:00AM - 5:30PM

Week 11 at STMicroelectronics involved continuing the development of our inventory management system. On June 30, I added a "reset password" function in the user management page that allows the admin to reset a certain user's password in case they've forgotten it. Our supervisor specifically requested this feature because the user is currently unable to reset their own password. The system does not have permission from the IT department to send OTPs to the user's email, which prevents the standard password recovery process from working. The created function generates a new password for the user to log in with temporarily. On July 1, I created a user settings page wherein the user can set a new password. I also enhanced parts of the main inventory's UI that day, such as alternating colors for table rows, adding toggles for the columns, and making sure that the table headers and first column stay visible even after scrolling. On July 2, I noticed that the codebase was somewhat chaotically organized, so I decided to modularize everything based on its core functions. The HTML templates were put in one folder, each Flask route was put in one folder, and so on and so forth. On July 3, my team and I tested the system's functionality in the production area (where system is to be deployed) and detected several bugs. After cleaning the codebase up, I ensured that there were no bugs left that arose from moving the files around.

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DATE	July 7-11, 2025	AREA ASSIGNMENT	Test Product Engineering Dept.
TASK	Testing, Documentation, Feedback, UI, Support	SHIFT/TIME	8:00AM - 5:30PM

My twelfth week at STMicroelectronics, Inc. was focused on system testing, documentation and incorporating feedback to refine our project. On July 7, my fellow OJTS and I visited the production area to conduct another round of system testing. During this session, we received feedback regarding the logic for approving pending units. We promptly implemented the necessary changes. Additionally, we assisted our supervisors in organizing the production area by returning the KGUs and load boards to their designated shelves, helping maintain a clean and efficient workspace. On July 8, I developed test cases for several minor modules of the KGU project to ensure their functionality. All test cases passed successfully. I also supported a fellow OJT by stress testing their practicum project, identifying areas that needed improvement, particularly in functionality and UI design. Later that day, I helped another OJT enhance their PowerBI dashboard by rearranging chart layouts and refining the overall UI/UX for better clarity and presentation. On July 9, a teammate and I began drafting the technical documentation for our system, outlining its architecture, features, and implementation details. On July 10, our team presented the KGU inventory system to our supervisors. We received valuable and constructive feedback aimed at improving both the functionality and user experience of the system. On July 11, we started addressing the feedback provided during the presentation, making adjustments to enhance the system based on our supervisor's recommendations. Overall, this week was productive and collaborative. I gained hands-on experience in system testing, documentation, and UI/UX design. I also appreciated the opportunity to assist my peers and contribute to improving their projects. I look forward to continuing to refine our system and learning more about technical documentation and quality assurance in the coming

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MCL
Malayan Colleges Laguna
A MAPÚA SCHOOL

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

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DATE	July 14 - July 18	AREA ASSIGNMENT	Test Product Engineering Dept.
TASK	Security, Documentation, UI, Collaboration, Presentation	SHIFT/TIME	8:00AM - 5:30PM

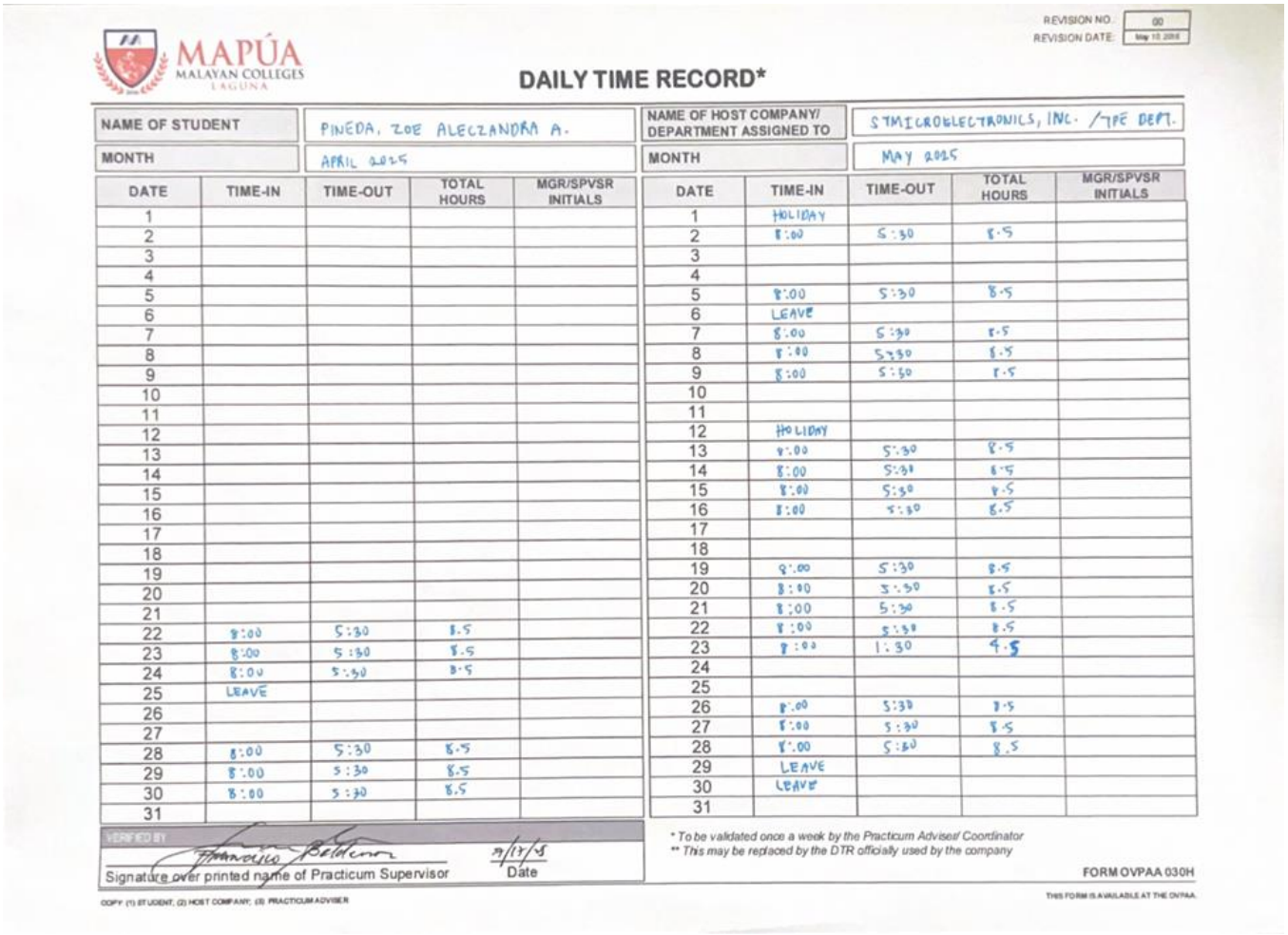
My thirteenth week at STMicroelectronics, Inc. focused on refining system features, assisting peers and preparing for our final presentation. On July 14, I acted on the feedback we received during last week's presentation. I updated the password-setting logic on the admin side by implementing random password generation for new users and encouraging them to change their password upon initial login. On July 15, I supported a fellow OJT from another departmeny by helping improve the UI/UX of their system. I also continued working on our system's documentatoin and finalized the implementation of new features requested by a head in the department during our previous presentation. On July 16, I dedicated time to further developing our system's documentation, focusing primarily on the narrative report. It was a half-day session, so I concentrated on polishing the written content. On July 17, I added a role-based access control feature to our system, ensuring that only admins could access specific functionalities. On July 18, my team and I collaborated to finalize the content and structure of our upcoming final presentation. We reviewed our individual parts and ensured everything was cohesive and well-prepared. Overall, this week was centered on refining our system based on feedback, enhancing security and user roles, supporting fellow interns, and preparing for our final presentation. I learned more about role-based access control, improved my skills in technical documentation, and appreciated the collaborative efforts within our team.

TRAINEE'S SIGNATURE

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

Appendix E

Daily Time Record



MAPÚA MALAYAN COLLEGES LAGUNA

REVISION NO.: 00
REVISION DATE: May 10 2016

DAILY TIME RECORD*

NAME OF STUDENT	PINEDA, ZOE ALECZANDRA A.	NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO	STMICROELECTRONICS, INC. /TPE DEPT.
MONTH	APRIL 2025	MONTH	MAY 2025

DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22	8:00	5:30	8.5	
23	8:00	5:30	8.5	
24	8:00	5:30	8.5	
25	LEAVE			
26				
27				
28	8:00	5:30	8.5	
29	8:00	5:30	8.5	
30	8:00	5:30	8.5	
31				

DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1	HOLIDAY			
2	8:00	5:30	8.5	
3				
4				
5	8:00	5:30	8.5	
6	LEAVE			
7	8:00	5:30	8.5	
8	8:00	5:30	8.5	
9	8:00	5:30	8.5	
10				
11				
12	HOLIDAY			
13	8:00	5:30	8.5	
14	8:00	5:30	8.5	
15	8:00	5:30	8.5	
16	8:00	5:30	8.5	
17				
18				
19	8:00	5:30	8.5	
20	8:00	5:30	8.5	
21	8:00	5:30	8.5	
22	8:00	5:30	8.5	
23	8:00	1:30	4.5	
24				
25				
26	8:00	5:30	8.5	
27	8:00	5:30	8.5	
28	8:00	5:30	8.5	
29	LEAVE			
30	LEAVE			
31				

VERIFIED BY

Signature over printed name of Practicum Supervisor

Date: 5/17/25

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

FORM OVPAA 030H

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COPY: (1) STUDENT, (2) HOST COMPANY, (3) PRACTICUM ADVISER

MAPÚA
MALAYAN COLLEGES
LAGUNA

REVISION NO.: 00
REVISION DATE: May 10, 2018

DAILY TIME RECORD*

NAME OF STUDENT	PINEDA, ZOE ALEJANDRA A.
MONTH	JUNE 2025

DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1				
2	LEAVE			
3	LEAVE			
4	LEAVE			
5	LEAVE			
6	HOLIDAY			
7				
8				
9	LEAVE			
10	LEAVE			
11	LEAVE			
12	HOLIDAY			
13	LEAVE			
14				
15				
16	LEAVE			
17	LEAVE			
18	LEAVE			
19	HOLIDAY			
20	LEAVE			
21				
22	8:00	5:30	8.5	
23	8:00	5:30	8.5	
24				
25				
26	8:00	1:00	4.5	
27				
28				
29	8:00	1:00	4.5	
30				
31				

VERIFIED BY

Signature over printed name of Practicum Supervisor

Date

NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO	STMICROELECTRONICS, INC. / TPE DEPT.
MONTH	JULY 2025

DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1	8:00	5:30	8.5	
2	8:00	5:30	8.5	
3	8:00	5:30	8.5	
4	LEAVE			
5				
6				
7	9:18	5:30	7.92	
8	8:00	5:30	8.5	
9	8:00	5:30	8.5	
10	8:00	5:30	8.5	
11	8:00	5:30	8.5	
12				
13				
14	8:00	5:30	8.5	
15	8:00	5:30	8.5	
16	4:00	5:30	4.5	
17	8:00	5:30	8.5	
18	8:00	5:30	8.5	
19				
20				
21	8:00	5:30	8.5	
22	8:00	5:30	8.5	
23	8:00	5:30	8.5	
24	8:00	5:30	8.5	
25				
26				
27				
28				
29				
30				
31				

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

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