COLLEGE OF COMPUTER AND INFORMATION SCIENCE

Academic Year 2024 - 2025

Practicum Final Report

Jimenez, Julian Manuel V.

Adviser: Adomar L. Ilao

Submitted to the Faculty of Mapúa Malayan Colleges Laguna

In Partial Fulfillment of the Requirements for the degree of

Bachelor of Science in Information Technology

Overview of the Practicum Engagement

The student interned at STMicroelectronics, a global leader in semiconductor solutions, at its manufacturing facility in Calamba, Laguna. The company is known for producing a wide range of electronic components and systems used in diverse industries including automotive, industrial, and consumer electronics. STMicroelectronics is committed to innovation, quality, and sustainable practices across its global operations.

The student rendered approximately 360 hours during the internship period. The internship began with an orientation and introductory technical training, which covered manufacturing procedures, safety protocols, and hardware fundamentals. The student also participated in various learning activities, including sessions on basic hand tools, machine parts, tribology, 7QC tools, and the use of Power BI and maintenance software.

The main assignment given to the student involved the development of a web-based internal tool intended to assist with certain operational processes in the department. The project was developed using front-end technologies such as HTML, CSS, and JavaScript. Due to company policies and a non-disclosure agreement (NDA), the specific functions and technical scope of the project cannot be disclosed. Despite these limitations, the tool proved valuable to the department and was adopted for continued internal use.

Alongside this development work, the student was also involved in 5S workplace activities and coaching sessions to report on progress and receive guidance from mentors.

To fulfill the required 486 practicum hours, the student also completed the Meta Full-Stack Developer Specialization offered through Coursera. This industry-recognized certification program provided an additional 307 hours of structured learning in full-stack web development. The coursework included hands-on projects and training in HTML, CSS, JavaScript, React, Node.js, Express, MongoDB, Git, and other essential web development tools and practices. The student was assessed through coding exercises, peer-reviewed assignments, and capstone projects that simulated real-world development scenarios.

By combining both on-site experience at STMicroelectronics and online professional training through Coursera, the student successfully completed the total 486-hour practicum requirement.

Mission and Vision

Site **Vision** We are the PREFERRED CHOICE for excellent products and services fostering a culture of accountability, growth and sustainability driven by empowered people.

Site **Mission** We sort, assemble and test Integrated Circuits and modules through innovative, fast and cost-effective solutions. We deliver these products, services and competencies to our customers making us an integral part of their value creation that drives our collective partnership leading to business growth. Our Purpose "**Be the preferred choice.**"

Nature of Assignments or Tasks Given

During the internship, the student was involved in a variety of technical and quality-focused tasks designed to assess their adaptability and proficiency in an industrial environment. The program began with an orientation led by the HR department, covering company policies,

safety protocols, and workplace standards to ensure a smooth transition into the operational setting.

Following this, the student underwent technical training in the Incoming Quality Control (IQC) process, which included familiarization with purchasing specifications, interpretation of engineering drawings, and standard inspection procedures. These sessions built a solid understanding of quality assurance workflows within the plant.

The student then advanced to hands-on training with inspection equipment such as the Nikon NEXIV and Strata systems. These exercises, conducted under the guidance of experienced staff, provided practical experience in precision measurement and equipment operation, essential for semiconductor manufacturing processes.

In parallel, the student completed data visualization training using Power BI, learning how to convert raw data into interactive dashboards and reports that support real-time decision-making and operational insights.

The main project assigned to the student focused on developing a digital tool intended to support internal training and process monitoring efforts. Due to company policies and security limitations, the project was developed using only front-end technologies with no integration of databases or external systems. Despite these constraints, the project was successfully designed to meet internal needs, featuring an intuitive interface and functional layout tailored for departmental use.

Owing to its practicality and relevance, the project was adopted by the team for continued internal use, highlighting its value in supporting day-to-day operations.

Throughout the internship, the student also engaged in problem-solving activities using quality control methodologies and participated in workplace organization initiatives. Weekly

progress reports and coaching sessions provided continuous feedback and technical mentorship.

The internship offered a well-rounded experience, blending exposure to equipment operations, quality procedures, data analysis, and software development. This enabled the student to contribute meaningfully to the organization while developing practical skills aligned with real-world industrial practices.

Total Hours Rendered

To fulfill the required **486 hours** of practicum experience, the student completed a **360-hour on-site internship at STMicroelectronics** in Calamba, Laguna, and supplemented this with the **Meta Full-Stack Developer Professional Certificate** from **Coursera**, totaling an additional **307 hours** of structured online learning. Combined, the student accomplished **667 total practicum hours**, exceeding the requirement and demonstrating strong initiative and commitment to professional development.

Breakdown of Hours Rendered at STMicroelectronics.

Task Category	Hours Rendered
HR Classroom Orientation	8 hours
Incoming Quality Control Procedure	8 hours
Purchasing Specs for Various Materials	24 hours
Drawing Interpretation	24 hours
Equipment Training	120 hours
Power BI Training	8 hours
7 QC Tools	8 hours

Task Category	Hours Rendered
Project Proposal/Development	160 hours
Total	**360 hours**

Meta Full-Stack Developer Specialization (Coursera)

Course Title	Hours Rendered
Introduction to Front-End Development	19 hours
Programming with JavaScript	46 hours
Version Control	18 hours
HTML and CSS in Depth	30 hours
React Basics	30 hours
Advanced React	26 hours
Programming in Python	45 hours
Introduction to Databases for Back-End Development	27 hours
Django Web Framework	45 hours
APIs	21 hours
Subtotal	**307 hours**

Grand Total: 667 Hours

The combination of in-plant immersion and industry-aligned online certification provided the student with a comprehensive and well-rounded practicum experience, balancing real-world exposure with deep technical training in modern web technologies.

Presentation of Output

Practicum Output – STMicroelectronics Calamba

The main output of the practicum at STMicroelectronics was the development of an internal web-based tool aimed at supporting operational and maintenance-related activities within the department. Built using HTML, CSS, and JavaScript, the tool was designed in alignment with company policies and technological constraints. Under the guidelines of an active non-disclosure agreement (NDA), only select portions of the system may be shared. Screenshots included in this report have been redacted or cropped to remove sensitive information and adhere to company confidentiality standards.
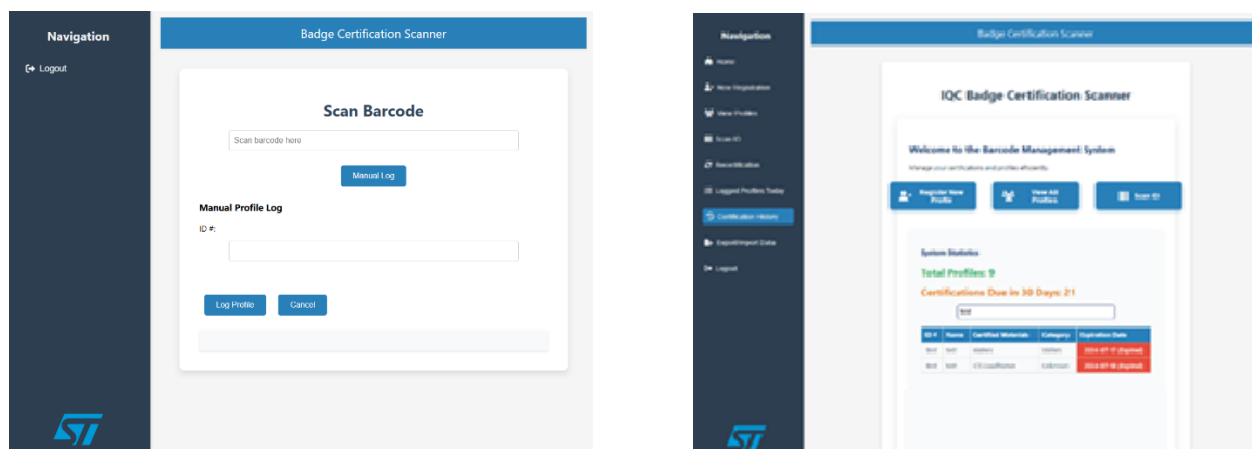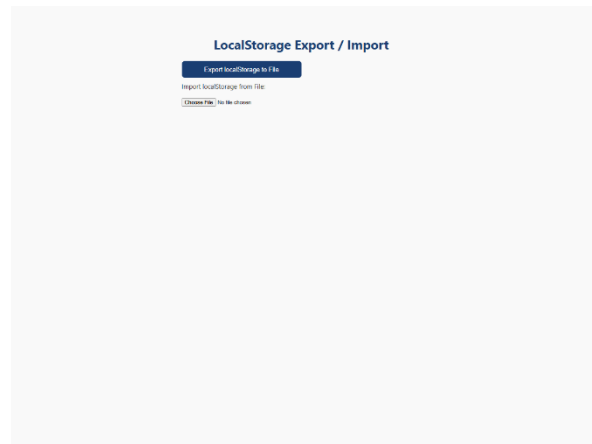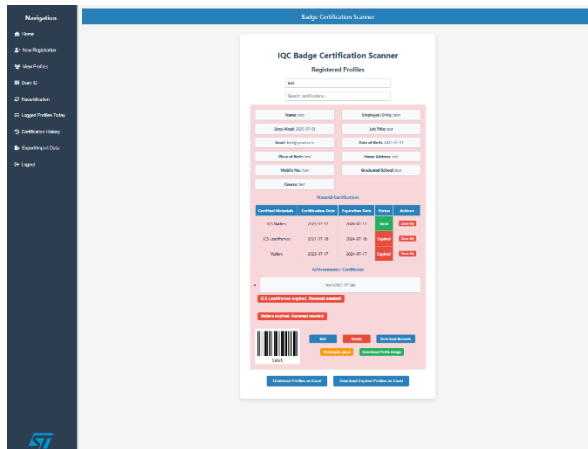
Meta Full-Stack Developer Specialization (Coursera)

To meet the required 486 hours of practicum, the student completed the **Meta Full-Stack Developer Professional Certificate** via **Coursera**. This program is composed of 10 comprehensive courses totaling **307 hours**.

The specialization provided a structured, hands-on learning path across core web development disciplines including front-end, back-end, and database management. Below is a breakdown of the student's activities and accomplishments based on the course content.

1. Introduction to Front-End Development (19 hours)

This course introduced the fundamentals of front-end development, focusing on the structure of websites using HTML, CSS, and JavaScript.

Key Outputs:

- Created a simple personal webpage using semantic HTML5.

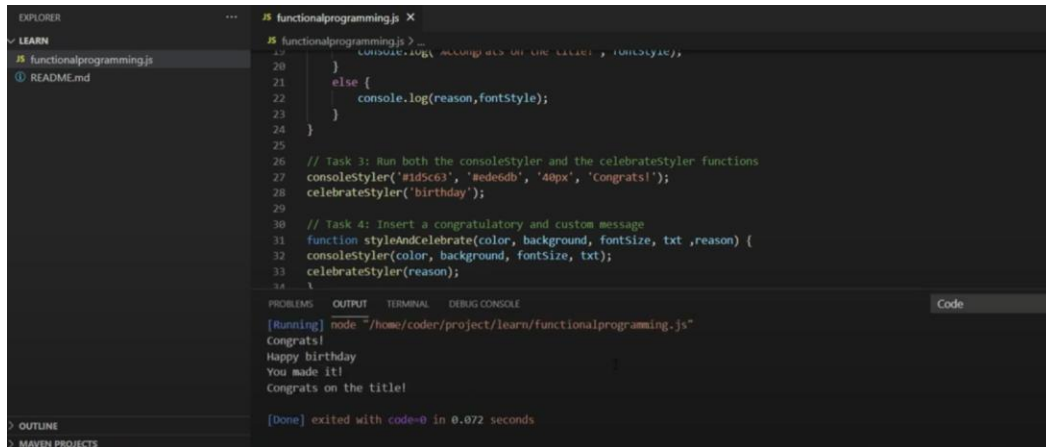- Applied basic styling with external CSS stylesheets.

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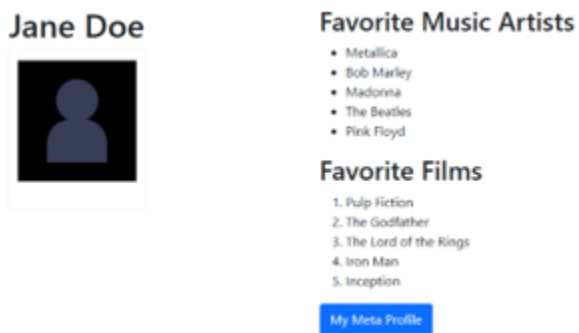
2. Programming with JavaScript (46 hours)

Covered core JavaScript syntax, programming constructs, DOM manipulation, and events.

Key Outputs:

- Developed interactive elements such as modals and image sliders.

- Implemented logic for form validation and data formatting.

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3. Version Control (18 hours)

Focused on Git for tracking code changes and collaboration workflows.

Key Outputs:

- Set up local repositories and managed branches.

- Pushed commits to GitHub and created pull requests.

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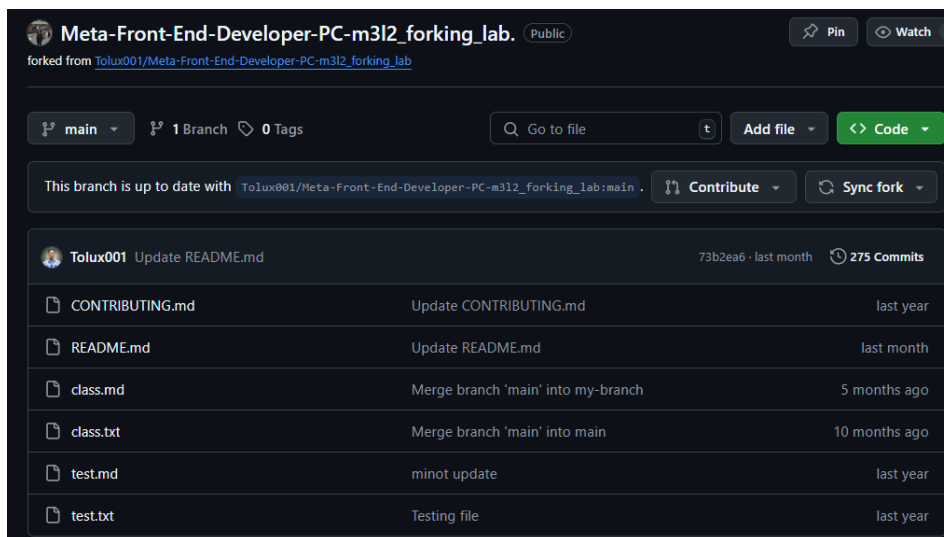
4. HTML and CSS in Depth (30 hours)

Expanded on layout systems like Flexbox and Grid, responsive design, and CSS specificity.

Key Outputs:

- Built a responsive multi-section web page using Grid.

- Applied advanced selectors and animations.

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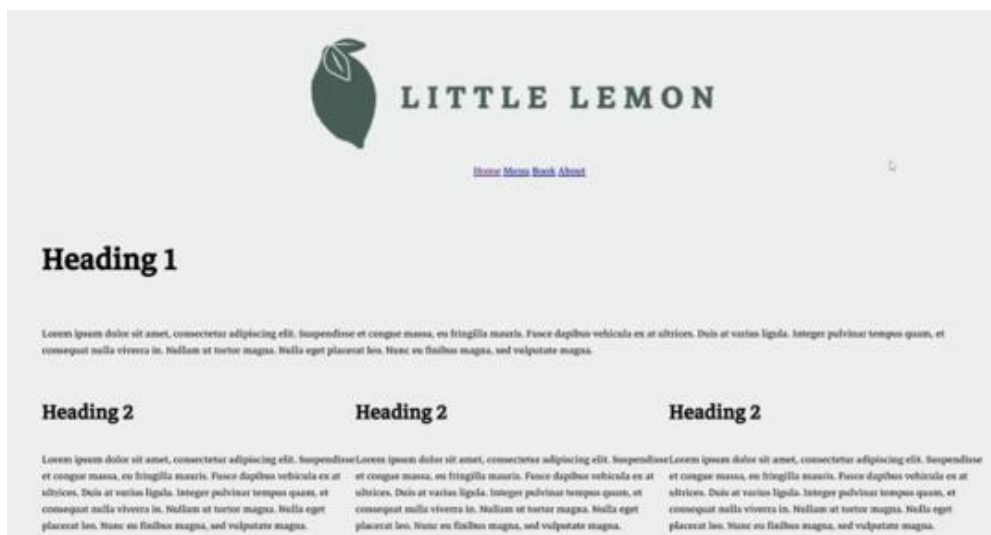
5. React Basics (30 hours)

Introduced functional components, JSX, state, and props.

Key Outputs:

- Built a weather info app using state and props.

- Demonstrated conditional rendering and reusable components.

Simplest Working Calculator

Total: 20

```
20
```

[Add] [Subtract] [Multiply] [Divide] [Reset Input] [Reset Result]

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6. Advanced React (26 hours)

Covered hooks, forms, context API, and routing.

Key Outputs:

- Built a multi-page React app using React Router.

- Used useEffect for API calls and useContext for global state.

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7. Programming in Python (45 hours)

Explored Python basics including functions, loops, data types, and error handling.
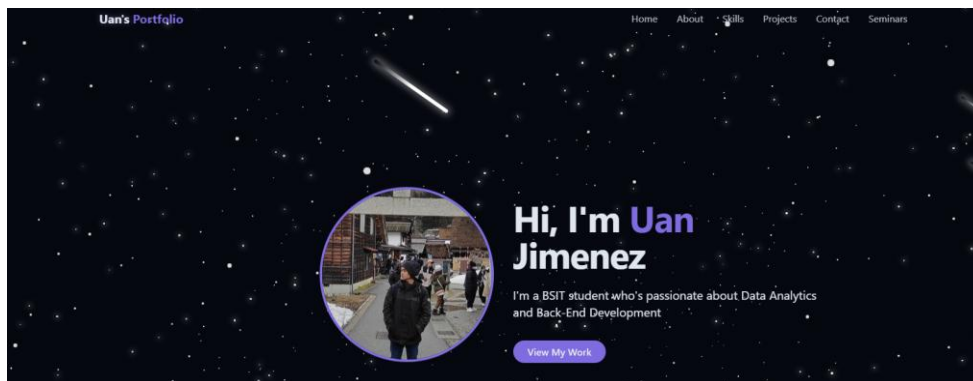
Key Outputs:

- Wrote Python scripts to perform simple automation tasks and data parsing.

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8. Introduction to Databases for Back-End Development (27 hours)

Taught relational database design, SQL basics, and normalization.

Key Outputs:

- Created SQL queries to select, insert, and join tables.

- Used   SQLite   for   building   small-scale   relational   databases.


```
mysql> SELECT CustomerID, FirstName, LastName, City, State, Country FROM Customer;
+------------+-----------+-----------+--------------------+-------+---------+
| CustomerID | FirstName | LastName  | City               | State | Country |
+------------+-----------+-----------+--------------------+-------+---------+
|          1 | Luís      | Gonçalves | São José dos Campos | SP    | Brazil  |
|          2 | Eduardo   | Martins   | São Paulo          | SP    | Brazil  |
|          3 | Alexandre | Rocha     | São Paulo          | SP    | Brazil  |
|          4 | Roberto   | Almeida   | Rio de Janeiro     | RJ    | Brazil  |
|          5 | Mark      | Philips   | Edmonton           | AB    | Canada  |
|          6 | Jennifer  | Peterson  | Vancouver          | BC    | Canada  |
+------------+-----------+-----------+--------------------+-------+---------+
6 rows in set (0.00 sec)
```

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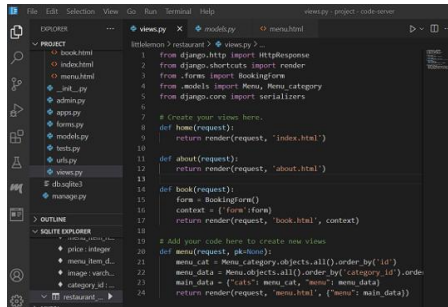
9. Django Web Framework (45 hours)

Introduced MVC architecture, views, models, templates, and authentication.

Key Outputs:

- Built a basic blog platform with Django admin and authentication.

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10. APIs (21 hours)

Focused on building and consuming REST APIs.

Key Outputs:

- Built a RESTful API using Django Rest Framework (DRF).

- Consumed external APIs using fetch/Axios in the frontend.

This structured training empowered the student with industry-relevant skills, hands-on experience with real-world development tools, and a solid foundation in both front-end and back-end web development.

Synthesis of the Practicum Engagement

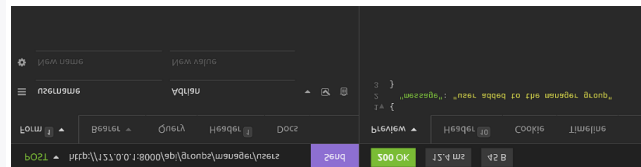The practicum experience, which combined on-site industrial training at STMicroelectronics with online certification through Coursera, provided valuable exposure to both practical quality work and IT-based learning. During my time at STMicroelectronics, I worked closely with the Incoming Quality Control (IQC) team, where I applied structured problem-solving to a real-world project focused on improving inspection processes. Although my role was rooted in quality control, the tasks often required analytical thinking, data handling, and reporting, all of which align closely with core IT skills.

As part of my project, I gathered and organized inspection data, identified patterns in material defects, and proposed process improvements based on my findings. I also applied documentation skills and basic system navigation, contributing to the organization of reports and inspection records. These experiences highlighted the role of digital tools and data systems in maintaining quality standards within a manufacturing setting. The attention to structure, accuracy, and traceability directly reflected best practices commonly used in IT environments.

In parallel with my industrial training, I completed the Meta Full-Stack Developer certification on Coursera. This program covered front-end and back-end web development, version control, API usage, and project deployment. The coursework allowed me to strengthen my skills in building full-stack applications and understanding development workflows. The self-paced structure of the certification improved my time management and encouraged independent problem-solving, which also benefited my practicum work.

Together, these two experiences gave me a broader perspective on how IT skills can be applied in diverse settings. I learned how to manage and present information clearly, work within

process-driven environments, and adapt to both collaborative and individual tasks. Whether through handling inspection data or building software projects, I developed habits that are essential in the IT field.

In conclusion, the practicum allowed me to grow professionally by combining practical industrial training with structured IT learning. It helped me see the connection between quality processes and information systems while reinforcing my interest in full-stack development. This experience has prepared me to take on future roles where technical knowledge, analytical thinking, and digital tools come together.

JULIAN MANUEL V. JIMENEZ

DEVELOPER / DATA ANALYST

CONTACT

📞 +63 995 274 4950

✉ uanjimenez0408@gmail.com

📍 Laguna, Philippines

🌐 https://github.com/yuantocode

SOFT SKILLS

* Problem Solving
* Time Management
* Integrity
* Adaptability
* Organization
* Critical Thinking
* Open-Mindedness
* Quick Learner
* Social Skills

LANGUAGES

* English
* Filipino
* Japanese (N5 Level)

OBJECTIVE

I'm eager to continuously learn and enhance my skills in Information Technology. Seeking a dynamic role that encourages growth, fosters innovation, and provides opportunities to tackle real-world challenges while staying ahead in the ever-evolving tech landscape.

EDUCATION

Mapúa Malayan Colleges Laguna — 2021 - PRESENT
Bachelor of Science in Information Technology

- Dean's Lister
- 3rd & 4th Year Representative (Infotech Society)
- WearOS (Organizer) and Material Committee Head

Mapúa Malayan Colleges Laguna — 2019 - 2021
Senior High School
Information and Communication Technology (ICT)

Maranatha Christian Academy — 2017 - 2018
Junior High School

Emmanuel Christian School — 2015 - 2019
Junior High School

HARD SKILLS

- C#, Python, Java (Entry Level)
- Web Development (HTML5, CSS3, ASP.NET, JavaScript)
- Database Management (MongoDB, PHP, MS Access)
- Embedded Systems (Arduino MicroController)
- Version Control: Github (Entry Level)

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https://github.com/yuantocode

JULIAN MANUEL V. JIMENEZ

DEVELOPER / DATA ANALYST

Relevant Work Experience

- **STMicroelectronics**
  Software Engineer Intern - Web Tools

  April 2025 - July 2025

  Achievement(s): Best OJT Presenter Award

Projects

- **Learning Environment Monitoring System (LEMS)**
  Capstone Project

  Technologies Used:
  - MERN stack
  - C++
  - Environmental Sensors
  - REST APIs
  - VPS (Hostinger)
  - WebStorm
  - Visual Studio

  Description:
  LEMS is a monitoring tool designed to help school heads assess the conduciveness of classrooms and other learning spaces. It tracks key environmental parameters such as temperature, humidity, smog levels, and air quality in 30 minutes interval. LEMS provides reliable data through visual dashboards and logs, enabling school administrators to make informed decisions based on actual classroom conditions. The system is purely observational, with no automated interventions, serving as a valuable reference for maintaining a healthy and effective learning environment. Historical data insights can support infrastructure planning and academic scheduling. LEMS encourages data-informed decisions to foster optimal educational conditions for both students and teachers.

- **Student / Employee Time Keeping System**
  Machine Problem

  Technologies Used:
  - PHP
  - MySQL
  - JavaScript
  - Bootstrap
  - HTML/CSS
  - RFID (13.56 MHz)
  - XAMPP
  - WebStorm

  Description:
  A digital time-in/time-out tracking system for students and employees, allowing administrators to log attendance efficiently and export reports for performance or compliance monitoring.

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📍 Laguna, Philippines

🌐 https://github.com/yuantocode

TRAININGS AND SEMINARS

- **CCNA: Introduction to Networks**
  Cisco Networking Academy   November 15, 2022

- **AWS Academy Cloud Foundations**
  Amazon Web Services Training and Certification   November 13. 2023

- **Certification of Completion**
  WearOS: EmergingTechnology for
  Internet and Learning of Everything   November 23, 2024

- **UI/UX Design using FIGMA**
  MST Connect Educational
  Consultancy   November 03, 2024

REFERENCES

Bianca Nazareno
Mapúa MCL / Colleague

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Mapúa MCL / Colleague

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Ian James S. Mendoza
Mapúa MCL / Colleague

email: ianjamessmendoza@gmail.com
phone number: +63 998 938 3374

Belen Ledesma
Mapúa MCL / Professor

email: bsladesma@mcl.edu.ph
phone number: +63 999 414 3198

Appendix B

Endorsement Letter

2 April 2025

Jovy Ordonia
HR Administrator
STMicroelectronics, Inc.
Light Indusy and Science Park II, ST-Ericsson, 9 Mountain Dr, Calamba, 4026 Laguna

Dear **Ms. Ordonia,**

The B.S. in Information Technology program of Mapúa Malayan Colleges Laguna requires their students to undergo Practicum program for a minimum of **486** hours in an academic calendar that will prepare our students to be job-ready after completing their curriculum. This program intends to enable our students to acquire and practice the knowledge and skills expected of a graduate of a B.S. IT program which, in turn, would guarantee continuous supply of IT professionals needed by your company.

We believe that your company can provide the relevant exposure necessary for our students to achieve the intended learning outcomes for the B.S. in Information Technology program. In this regard, I would like to endorse **Mr. Julian Manuel V. Jimenez** to have his practicum activities in your company as requested.

We thank you for your confidence and trust with us and we look forward to a more meaningful linkage that is mutually beneficial to our students and your company.

With warm regards,

ADOMAR L. ILAO,DIT
BSIT Program Chair
College of Computer and Information Science
Mapúa Malayan Colleges Laguna
alilao@mcl.edu.ph
(049) 832-4076

Address : Pulo Diezmo Road, Cabuyao City, Laguna 4025
Trunkline: +63 (49) 832-4000
Fax   : +63 (49) 832-0017, +63 (2) 8520-8975
Email   : mclinfo@mcl.edu.ph

mcl.edu.ph   MapuaMCL   mapuamcl

Appendix C

Practicum Acceptance

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

May 2, 2025

Adomar L. Ilao
Program Chair, BS Information Technology
Mapua Malayan Colleges of Laguna

Dear Sir Adomar,

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
Ridon Borlaza	BS Information Technology	DTIT
Julian Manuel V. Jimenez	BS Information Technology	Q&R
Romel Joshua M. Escote	BS Information Technology	OPS 1 - TnF
Bianca Nazareno	BS Information Technology	OPS 1 - TnF
Ian James S. Mendoza	BS Information Technology	OPS 1 - TnF
Alain Nezar A. Peralta	BS Information Technology	TPE
Rad Leroy M. Acosta	BS Information Technology	TPE
Eljhay L. Sibayan	BS Information Technology	TPE

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 P. ORDONIA
HR Partner/Global Talent Acquisition
STMicroelectronics

ST Restricted

MCL
Malayan Colleges Laguna
A MAPÚA SCHOOL

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	Julian Manuel V. Jimenez	STUDENT NUMBER	2021160737
COURSE CODE	CIS441	SY/TERM ENROLLED	2024-2025/3rd Term

This is to certify that _Julian Manuel V. Jimenez_ (name of student-trainee) has been accepted for practicum at _STMICROELECTRONICS INC. Light Indusy and Science Park II, ST-Ericsson, 9 Mountain Dr, Calamba, 4028 Laguna_ (name and address of establishment) and will be attached to the _____ department/s for a minimum of, but not limited to _____ 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

Nathaniel Rondain
Signature over Printed Name

Q & R
Department

SQE
Official Designation

nath.rondain@st.com
09215968863
Email and Contact Number/s

NOTED BY

Admmar Ttao
Signature over printed name of Practicum Coordinator

5/2/2025
Date

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

FORM OVPAA 030B

THIS FORM IS AVAILABLE AT THE OVPAA.

Appendix D

Liability Waiver

MCL
Malayan Colleges Laguna
A MAPUA SCHOOL

STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

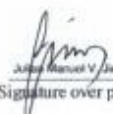**IMPORTANT INFORMATION**
- THIS FORM IS TO BE ACCOMPLISHED AND SUBMITTED BY STUDENT TRAINEE TO THE PRACTICUM ADVISER BEFORE STARTING THE PRACTICUM.
- READ AND UNDERSTAND THE PROVISIONS OF THIS AGREEMENT AND WAIVER.
- ENSURE THAT ALL SIGNATORIES SIGN THE FORM.

I, Julian Manuel V. Jimenez   , and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL", do hereby voluntarily undergo on-the-job training at STMICROELECTRONICS INC.   , hereinafter referred to as the "Host Company", located at Light Industry and Science Park II, ST-Ericsson, ¾ Mountain Dr, Calamba, 4026 Laguna , under the following terms and conditions:

a. That the practicum training will commence on April 22nd 2025 and ends on July 31st 2025 and will have to complete a minimum of 486 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 28th day of April 2025

Julian Manuel V. Jimenez
Signature over printed name of **Student Trainee**

WITH OUR CONSENT: _____
Signature over printed name of **Parent/Guardian**
(for minors only)

NOTED BY: Adonai Ilao 5/2/25

Printed Name and Signature of **Practicum Adviser/ Coordinator**

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

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

FORM OVPAA 030C
THIS FORM IS AVAILABLE AT THE OVPAA.

Appendix E

Training Plan

MCL
Malayan Colleges Laguna
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TRAINING PLAN

NAME	Julian Manuel Y. Jimenez	COURSE CODE	CIS 441
PROGRAM & STUDENT NO.	BSIT & 2021160737	COURSE TITLE	I.T. Practicum

STUDENT OUTCOMES

CO1. Identify, analyze, and design business solution to the problem faced by the organization.

CO2. Apply the different concepts of systems analysis ard design, Software engineering, database managenent, and programming courses in the problem solving process in the organization. and

CO3. Acquire new knowledge and experience whie in the organization.

AREAS / PHASES OF TRAINING AND TIME ALLOTMENT

- HR Classroom Orientation (8 Hours)
- Incoming Quality Control Procedure (8 Hours)
- Purchasing Specs for Various Materials (24 Hours)
- Drawing Interpretation (24 Hours)

- Equipment Training: (120 Hours)
  - Nikon NEXIV
  - Strata
- Power BI Training (8 Hours)
- 7QC Tools (8 Hours)
- Project: Badge Certification(160 Hours)

EVALUATION GUIDELINES & COURSE OUTCOMES

DEMONSTRATION OF SOFT SKILLS (40%)	DEMONSTRATION OF TECHNICAL SKILLS (60%)
KEY AREAS	**KEY AREAS**
COMMUNICATION SKILLS (20%)	Problem solving and Analytical **SKILLS (X%)**
Relate to co-trainees/supervisors terminologies and rules	- Power BI Training Completion and Application
Recite procedures and instructions needed for the tasks	- 7QC Tool Completion and Application
Identify and describe safety signs and symbols	
Ask critical questions related to the tasks	Quality **SKILLS (Y%)**
Produce well-written regular and incident reports	- Incoming Quality Control Procedure and Understanding the Application
Prepares and presents reports using Information and Communication Technology (ICT)	- Technical Drawing Understanding and Application to IQC
	- First Article Inspection Tracker Completion
PROFESSIONAL DEPORTMENT (20%)	Project Management **SKILLS (Z%)**
Observes proper grooming and attire	- Development and Deployment of Supplier Borrowers System
Reports to work regularly on time and as necessary, even beyond prescribed working hour	- Development and Deployment of IQC Badge Certification System
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
Julian Manuel Y. Jimenez		Jul-18 Nathaniel Rondain		
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

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Appendix F
Signed Daily Time Record

DAILY TIME RECORD*

NAME OF STUDENT: Julian Manuel V. Jimenez
NAME OF HOST COMPANY/DEPARTMENT ASSIGNED TO: STMicroelectronics/Quality and Reliability

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

MONTH: April | **MONTH: May**

DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1					1				
2					2	7:46 AM	5:30 PM	8.5	
3					3				
4					4				
5					5	7:10 AM	5:31 PM	8.5	
6					6	7:15 AM	5:32 PM	8.5	
7					7	7:33 AM	5:40 PM	8.5	
8					8	7:32 AM	5:37 PM	8.5	
9					9	7:32 AM	5:31 PM	8.5	
10					10				
11					11				
12					12				
13					13	7:29 AM	5:32 PM	8.5	
14					14	7:35 AM	5:30 PM	8.5	
15					15	7:26 AM	5:53 PM	8.5	
16					16	7:23 AM	5:32 PM	8.5	
17					17				
18					18				
19					19				
20					20	7:16 AM	5:30 PM	8.5	
21					21	9:27 AM	5:33 PM	7.10	
22	8:00 AM	5:30 PM	8.5		22	12:07 AM	5:35 PM	4.47	
23	8:00 AM	5:30 PM	8.5		23	7:32 AM	1:31 PM	5.00	
24	8:00 AM	5:30 PM	8.5		24				
25	8:00 AM	5:30 PM	8.5		25				
26					26				
27					27	7:24 AM	5:30 PM	8.5	
28	8:00 AM	5:30 PM	8.5		28	7:21 AM	5:31 PM	8.5	
29	7:31 AM	5:31 PM	8.5		29	7:28 AM	5:30 PM	8.5	
30	7:13 AM	5:31 PM	8.5		30	7:15 AM	5:30 PM	8.5	
31					31				

VERIFIED BY:
Nathaniel Rondain
Signature over printed name of Practicum Supervisor
Date: July 10, 2025

* 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

DAILY TIME RECORD*

NAME OF STUDENT: Julian Manuel V. Jimenez
NAME OF HOST COMPANY/DEPARTMENT ASSIGNED TO: STMicroelectronics/Quality and Reliability

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

MONTH: June | **MONTH: July**

DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1					1	7:54 AM	5:31 PM	8.5	
2	7:07 AM	12:58 PM	4.85		2	7:42 AM	5:33 PM	8.5	
3					3	7:54 AM	5:31 PM	8.5	
4	7:29 AM	5:36 PM	8.5		4	7:55 AM	5:32 PM	8.5	
5	7:11 AM	5:36 PM	8.5		5				
6					6				
7					7	7:53 AM	5:30 PM	8.5	
8					8	7:33 AM	5:30 PM	8.5	
9	7:34 AM	12:29 PM	3.90		9	7:40 AM	5:30 PM	8.5	
10	7:16 AM	12:01 PM	3.75		10	7:43 AM	5:30 PM	8.5	
11	7:15 AM	9:44 AM	2.49		11	7:50 AM	5:30 PM	8.5	
12					12				
13					13				
14					14	7:38 AM	5:30 PM	8.5	
15					15				
16					16	8:01 AM	5:33 PM	8.5	
17	7:02 AM	5:31 PM	8.5		17	7:57 AM	5:30 PM	8.5	
18					18	7:37 AM	5:31 PM	8.5	
19					19				
20					20				
21					21	1:14 PM	5:34 PM	4.5	
22					22	8:47 AM	5:49 PM	8.5	
23	7:20 AM	5:30 PM	8.5		23				
24	7:49 AM	5:31 PM	8.5		24	9:53 AM	5:30 PM	7.5	
25	7:34 AM	5:31 PM	8.5		25				
26	8:52 AM	5:30 PM	7.44		26				
27	7:36 AM	5:30 PM			27				
28					28	10:03 AM	5:31 PM	7.5	
29					29	8:23 AM	2:22 PM	6.5	
30	7:48 AM	5:31 PM	8.5		30	7:28 AM	5:43 PM	8.5	
31					31	5:24 AM			

VERIFIED BY:
Nathaniel Rondain
Signature over printed name of Practicum Supervisor
Date: July 10, 2025

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FORM OVPAA 030H

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

Julian Manuel V. Jimenez

Has successfully completed **360 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

Appendix H
Certificate of Completion (META Full-Stack Developer Specialization)

10 Courses

Introduction to Front-End Development

Programming with JavaScript

Version Control

HTML and CSS in depth

React Basics

Advanced React

Programming in Python

Introduction to Databases for Back-End Development

Django Web Framework

APIs

Jul 11, 2025

Julian Manuel Velasco Jimenez

has successfully completed the online, non-credit Specialization

Meta Full-Stack Developer

Congratulations on completing the Meta Full-Stack Development Specialization! You've mastered the skills needed across frontend and backend technologies. This certificate recognizes your hard work and dedication to developing valuable skills in today's tech industry. Please share it with your professional network. You've developed a skillset spanning the entire web development spectrum: mastering HTML, CSS, JavaScript and React on the frontend while building expertise in Python, databases, and Django for backend applications that integrate with your frontend work. Your completion of this program shows you can build complete web applications end-to-end, an important skill set for success in web development.

Taught by Meta Staff

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:
https://coursera.org/verify/specialization/O27FOIMGXOP4

Appendix I

Complete Weekly Journal

MAPÚA
MALAYAN COLLEGES
LAGUNA

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	April 22 - 24, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	General Orientation	SHIFT/TIME	8:00am - 5:30pm

Software Development:

No software development or programming activities were performed in this entry.

Documentation Activities:

Submitting and processing OJT requirements such as contracts and HMO forms

involves administrative paperwork and record keeping, which falls under documentation.

Other IT-Related Activities:

Orientation, training on 7 QC tools, and deployment to the Quality and Reliability department

are part of technical onboarding and general IT-industry preparation. These activities support the intern's

role in an industrial tech environment but do not involve coding or development.

TRAINEE'S SIGNATURE

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DATE	April 28 - 30, May 2, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Job Familiarization	SHIFT/TIME	8:00am - 5:30pm

Software Development:

The meeting with the IT Head to discuss the planned system for the Q&R department falls

under software development. This marks the beginning of the planning and requirements-gathering phase

for a software project.

Documentation Activities:

Other IT-Related Activities:

Assisting with data encoding and touring the Incoming Quality Control (IQC) room are general

support and familiarization tasks common in IT-related environments. These involve using or understanding

technical tools but do not involve software development.

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DATE	May 5-9, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Exam IQC Procedures	SHIFT/TIME	8:00am - 5:30pm

Software Development:

No software development tasks were conducted in this entry.

Documentation Activities:

Interpreting supplier requirements and material specifications involves

reading, understanding, and applying documented technical standards, which aligns with

documentation-related tasks.

Other IT-Related Activities:

Completing training modules on Incoming Quality Control Procedures and

Purchasing Specifications falls under technical preparation in an IT-related industrial

environment. These activities support familiarity with quality systems and inspection

standards but are not part of software development or documentation work.

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DATE	May 12-16, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Power BI	SHIFT/TIME	8:00am - 5:30pm

Software Development:

No coding, scripting, or software-building tasks were performed in this entry.

Documentation Activities:

Reviewing sample IQC reports and focusing on formatting and presentation techniques falls under documentation, as it involves organizing and interpreting data for reporting purposes.

Other IT-Related Activities:

The use of Power BI for creating dashboards, analyzing defect trends, and assessing supplier performance is a data-driven IT activity. It doesn't involve programming but contributes to technical operations and decision support.

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DATE	May 19-23, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Equipment Training	SHIFT/TIME	8:00am - 5:30pm

Software Development:

No programming or development work was involved in this entry.

Documentation Activities:

Understanding tolerances and inspection planning indirectly involves interpreting technical

documentation like specs or inspection plans, but this role is minimal here.

Other IT-Related Activities:

Hands-on training with the Nikon NEXIV system and learning equipment operation, digital

measurement, and inspection planning are technical activities related to engineering and quality control, not

software. These tasks support IT-related manufacturing processes.

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DATE	May 26-30, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Project	SHIFT/TIME	8:00am - 5:30pm

Software Development:

While project planning has begun, no actual development or coding tasks were performed yet in this entry.

Documentation Activities:

Problem identification, data collection, and project planning involve organizing information and aligning objectives core components of documentation work, especially in project management.

Other IT-Related Activities:

Hands-on checks with the Strata inspection system and refining inspection techniques are part of technical training in a manufacturing IT setting. These are hardware-related activities, not software tasks.

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DATE	June 2-6, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Project	SHIFT/TIME	8:00am - 5:30pm

Software Development:

The analysis of IQC records and defect trends was conducted to define the scope of a software project aimed at improving quality control. Drafting the improvement plan is part of the early development phase, specifically in system planning and requirement analysis.

Documentation Activities

Reviewing records, identifying issues, and drafting a proposed plan all involve documentation work that supports the software project's structure and direction.

Other IT-Related Activities:

Revisiting the Nikon NEXIV machine to practice inspection techniques is a hardware-related task, outside the scope of software development, but still technical and IT-related.

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DATE	June 9-13, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Project	SHIFT/TIME	8:00am - 5:30pm

Software Development:

The project referenced involves developing a software solution for IQC improvement. Analyzing past records and defect trends, identifying key problem areas, and drafting an improvement plan are all part of the software development process, specifically the requirements gathering and early planning phases.

Documentation Activities:

Drafting the improvement plan and analyzing records for project scope definition involve documenting findings and outlining functional goals for the software.

Other IT-Related Activities:

Revisiting the Nikon NEXIV machine to recheck sample measurements is a technical task unrelated to software but still relevant to the IT/manufacturing context.

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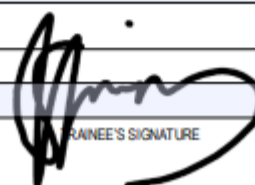| DATE	June 16-20, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Project	SHIFT/TIME	8:00am - 5:30pm

Software Development:

Implementing changes based on project findings and tracking their effects using a dashboard directly relates to software functionality and development. This shows continued iteration on the project tool, possibly involving UI updates or logic adjustments.

Documentation Activities:

Reviewing the 7 QC Tools and applying the Pareto Chart to improve how recurring issues are visualized supports documentation and reporting quality, especially in presenting data clearly.

Other IT-Related Activities:

No direct hardware or general IT-support tasks were performed, so this category doesn't apply to this entry.

TRAINEE'S SIGNATURE

![Mapúa Malayan Colleges Laguna logo]

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DATE	June 23-27, 2025	**AREA ASSIGNMENT**	STMicroelectronics INC.
TASK	Project	**SHIFT/TIME**	8:00am - 5:30pm

Software Development:

Reviewing results from implemented changes, analyzing inspection data, and refining the action plan are all part of iterative software development. These tasks contribute to evaluating the effectiveness of the tool and improving its design or functionality based on feedback.

Documentation Activities:

Documenting observations, drafting the project conclusion, and preparing the final report are core documentation tasks that support both project closure and knowledge transfer.

Other IT-Related Activities:

Reviewing a technical drawing to confirm specification alignment is a general IT-related task, supporting technical accuracy but not directly tied to software or documentation.

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DATE	June 30, July 1-4, 2025	AREA ASSIGNMENT	STMicroelectronics
TASK	Project	SHIFT/TIME	8:00am - 5:30pm

Software Development:

Finalizing core project results that demonstrate trends and improvements ties directly to the

software tool's output and its role in enhancing inspection processes. This reflects the culmination of

software-based data tracking and analysis.

Documentation Activities:

Preparing the summary report and presentation slides is a clear documentation task, focused on

organizing and presenting the project's findings and impact.

Other IT-Related Activities:

Reviewing the Strata system's training guide is a general technical activity related to system

familiarity, even though it wasn't directly applied to the project.

TRAINEE'S SIGNATURE

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DATE	July 7-11, 2025	AREA ASSIGNMENT	STMicroelectronics INC.
TASK	Project	SHIFT/TIME	8:00am - 5:30pm

Software Development:

Finalizing project results related to inspection trends and process improvements directly reflects outcomes of the software tool's implementation and its analytical capabilities. This is part of concluding the development and evaluation phase of the project.

Documentation Activities:

Preparing the summary report and presentation slides is documentation work, aimed at communicating the project's results and value clearly.

Other IT-Related Activities:

Reviewing the Strata system's training guide, even if not directly used, is a technical support activity for contextual understanding, fitting under general IT-related tasks.

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DATE	July 14-18, July 30 2025	**AREA ASSIGNMENT**	STMicroelectronics
TASK	Final Presentation	**SHIFT/TIME**	8:00am - 5:30pm

Software Development:

Presenting the software project, including the problem, methodology, and results, represents

the formal conclusion of the development process. This marks the final delivery phase of the software

lifecycle.

Documentation Activities:

Revising and organizing the final report, project files, supporting data, and personal reflections

are all core documentation tasks. These activities ensure that the project is formally recorded, assessed, and

submitted according to practicum requirements.

Other IT-Related Activities:

No new general IT-related or technical support activities occurred during this week; the focus

was entirely on wrapping up the project and documentation.

TRAINEE'S SIGNATURE