



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

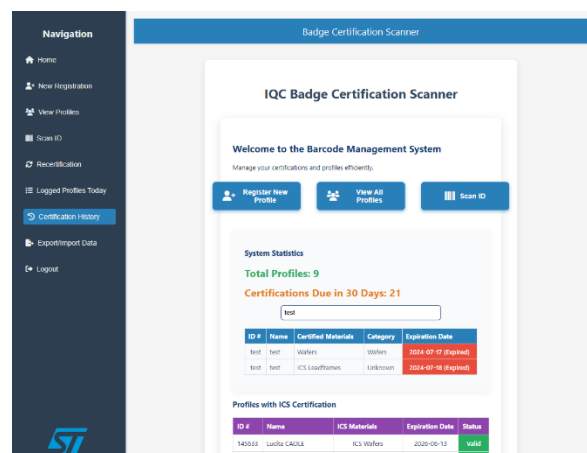
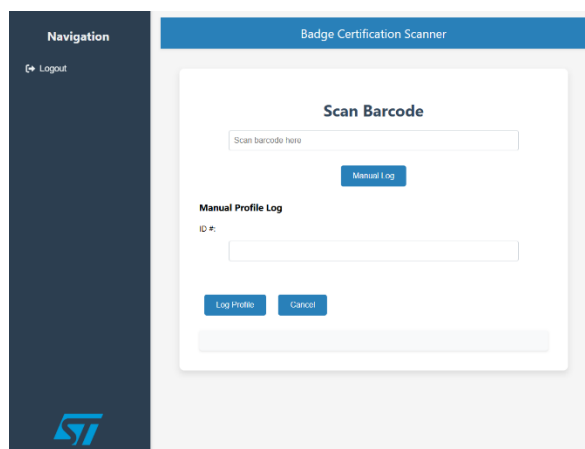
Grand Total: 667 Hours

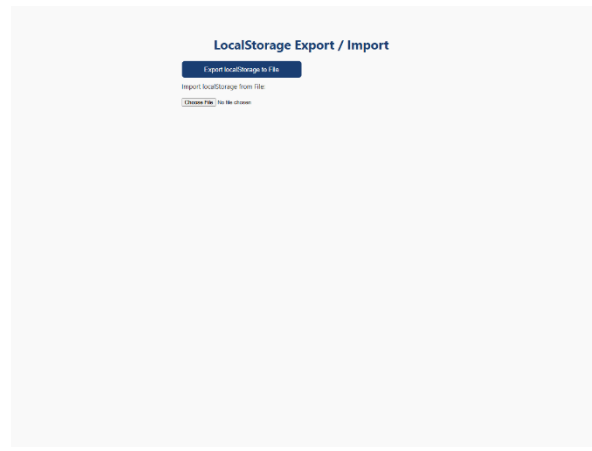
The combination of in-plant immersion and industry-aligned online certification provided the student with a comprehensive and well-rounded practicum experience, balancing real-world exposure with deep technical training in modern web technologies.

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.





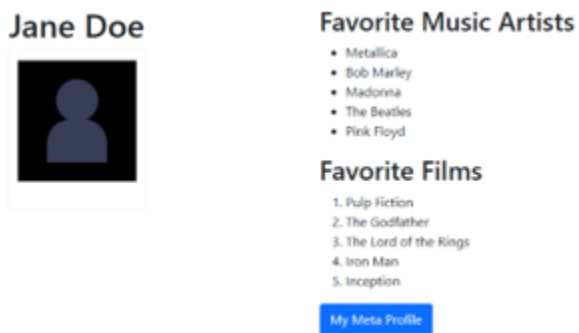
The specialization provided a structured, hands-on learning path across core web development disciplines including front-end, back-end, and database management. Below is a breakdown of the student's activities and accomplishments based on the course content.

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.

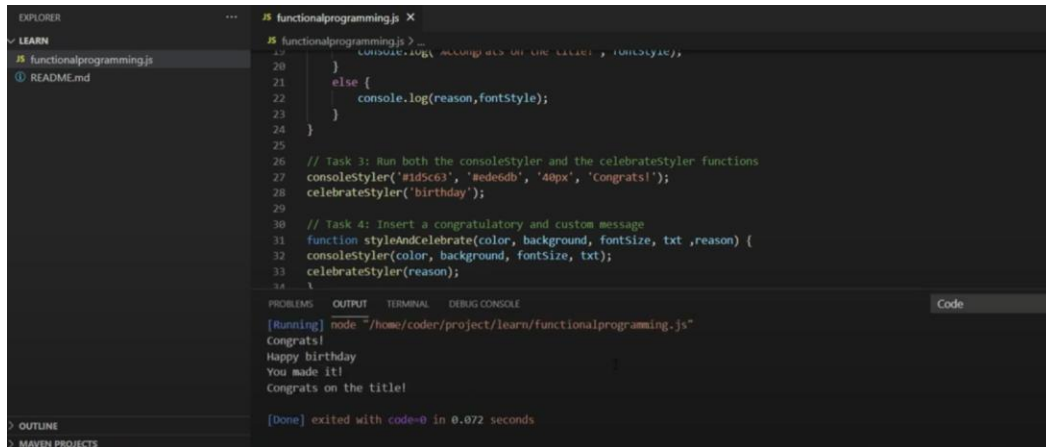


2. Programming with JavaScript (46 hours)

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.



```
20 }
21 else {
22   console.log(reason,fontStyle);
23 }
24 }
25
26 // Task 3: Run both the consoleStyler and the celebrateStyler functions
27 consoleStyler('#d5c63', '#ede6db', '40px', 'Congrats!');
28 celebrateStyler('birthday');
29
30 // Task 4: Insert a congratulatory and custom message
31 function styleAndCelebrate(color, background, fontSize, txt ,reason) {
32   consoleStyler(color, background, fontSize, txt);
33   celebrateStyler(reason);
34 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

[Running] node /home/coder/project/learn/functionalprogramming.js

Congrats!
Happy birthday
You made it!
Congrats on the title!

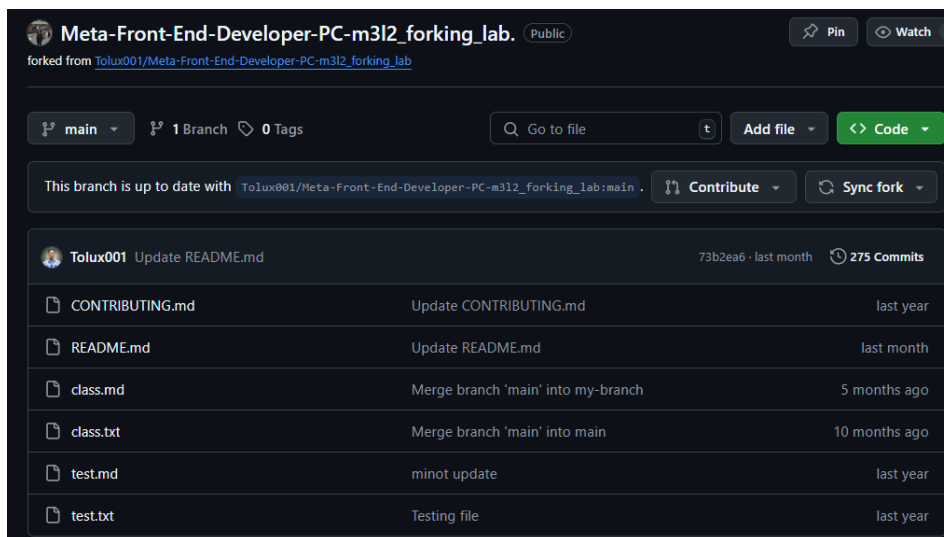
[Done] exited with code=0 in 0.072 seconds

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.

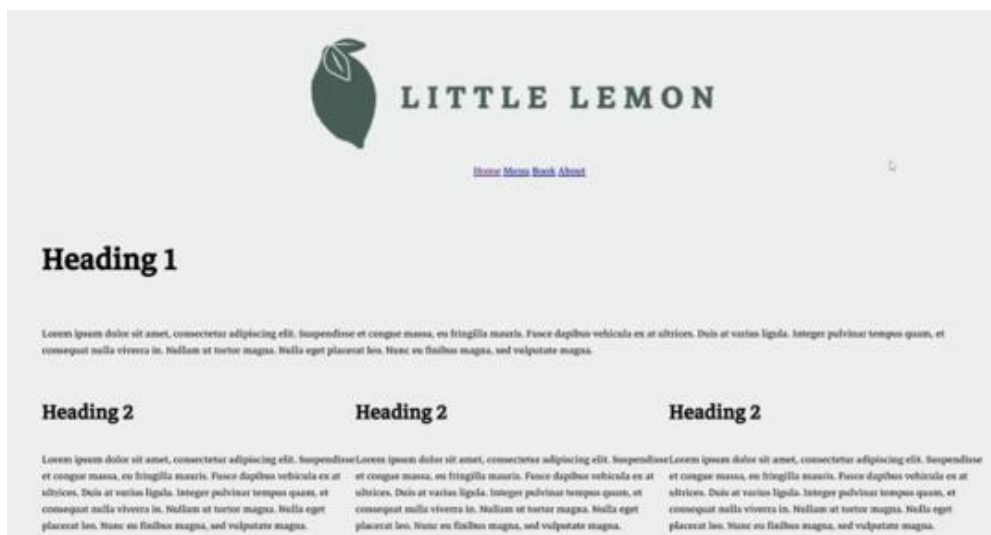


4. HTML and CSS in Depth (30 hours)

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.



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

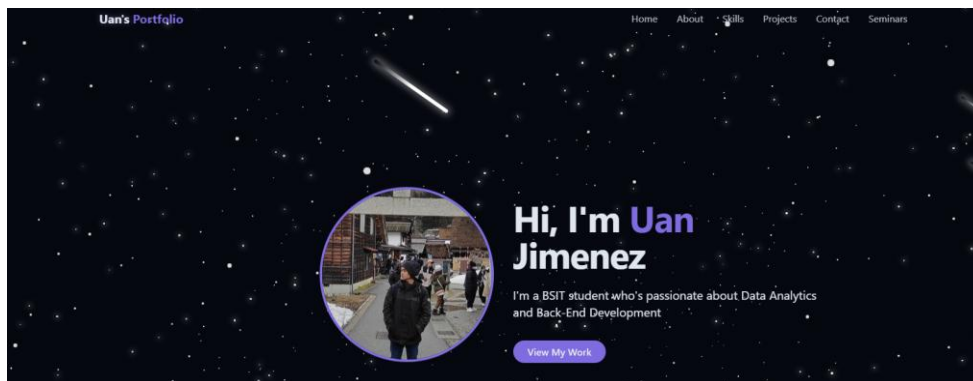
Add Subtract Multiply Divide Reset Input Reset Result

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.



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.
-

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	Luis	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	Phillips	Edmonton	AB	Canada
6	Jennifer	Peterson	Vancouver	BC	Canada

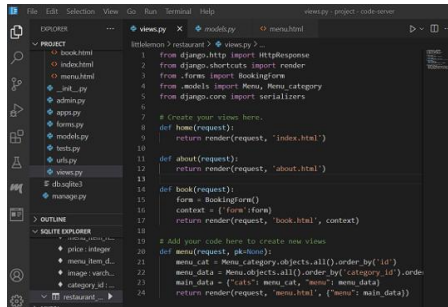
```
6 rows in set (0.00 sec)
```

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.



```
1 from django.http import HttpResponseRedirect
2 from django.shortcuts import render
3 from .forms import BookingForm
4 from models import Menu, MenuCategory
5 from django.core import serializers
6
7 # Create your views here.
8 def home(request):
9     return render(request, 'index.html')
10
11 def about(request):
12     return render(request, 'about.html')
13
14 def book(request):
15     form = BookingForm()
16     context = {'form': form}
17     return render(request, 'book.html', context)
18
19 # Add your code here to create new views
20 def menu(request, pk=None):
21     menu_cat = MenuCategory.objects.all().order_by('id')
22     menu_data = Menu.objects.all().order_by('category_id').order
23     main_data = {'cats': menu_cat, 'menu': menu_data}
24     return render(request, 'menu.html', {'menu': main_data})
```



Home About Menu Book

Menu

Bruschetta
\$11.00
Greek salad
\$12.00
Grilled fish
\$9.00
Lemon dessert
\$7.00

10. APIs (21 hours)

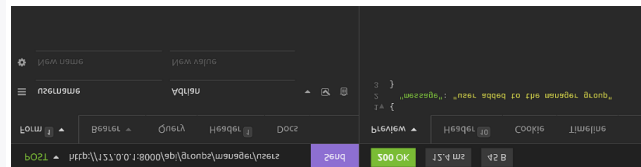
Focused on building and consuming REST APIs.

Key Outputs:

- Built a RESTful API using Django Rest Framework (DRF).
- Consumed external APIs using fetch/Axios in the frontend.

```
HTTP/200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

{
  "count": 5,
  "next": "http://127.0.0.1:8000/api/menu-items?page=2",
  "previous": null,
  "results": [
    {
      "id": 1,
      "title": "Beef Pasta",
      "price": "12.00",
      "category": 1,
      "featured": true
    },
    {
      "id": 2,
      "title": "Tomato Pasta",
      "price": "5.00",
      "category": 1,
      "featured": false
    }
  ]
}
```



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.



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.

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.



Taught by Meta Staff

Verify this certificate at:
<https://coursera.org/verify/specialization/D27EQIMGXQP4>

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.

Appendices

Appendix A

Competency-Based CV



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

JULIAN MANUEL V. JIMENEZ

DEVELOPER / DATA ANALYST

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)



CONTACT

+63 995 274 4950

uanjimenez0408@gmail.com

Laguna, Philippines

<https://github.com/yuantocode>

JULIAN MANUEL V. JIMENEZ

DEVELOPER / DATA ANALYST

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: Emerging Technology 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

email: bncnzn11@gmail.com
phone number: +63 938 323 8565

Romel Joshua M. Escote
Mapúa MCL / Colleague

email: rj.escote5@gmail.com
phone number: +63 939 725 3098

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,

A handwritten signature in black ink, appearing to read "Adomar L. Ilao".

ADOMAR L. ILAO, DIT

BSIT Program Chair

College of Computer and Information Science

Mapúa Malayan Colleges Laguna

alilao@mcl.edu.ph

(049) 832-4076

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
Blanca 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

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 Industry and Science Park II, ST-Enclave, 9 Mountain Dr, Calamba, 4026 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	
<u>Nathaniel Rondain</u> Signature over Printed Name	<u>SQE</u> Official Designation
<u>Q&R</u> Department	<u>nath.rondain@st.com</u> Email and Contact Number/s
<u>Adornado HAO</u> Signature over printed name of Practicum Coordinator	<u>5/2/2025</u> Date

Appendix D

Liability Waiver



REVISION NO.: 00
REVISION DATE: May 10, 2019

STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

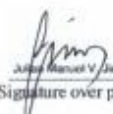
IMPORTANT INFORMATION

- 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. Jernenez, 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, 4 Mountain Dr., Calamba, 4026 Laguna, under the following terms and conditions:

- That the practicum training will commence on April 22nd 2025 and ends on July 31st 2025 and will have to complete a minimum of 400 hours required for the on-the-job training;
- 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;
- 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;
- 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.;
- 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;
- 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;
- 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;
- 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;
- 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


Signature over printed name of Student Trainee

WITH OUR CONSENT:

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

NOTED BY:


Printed Name and Signature of Practicum Adviser/ Coordinator


Printed Name and Signature of Host Company Representative

Appendix E

Training Plan

Incoming Quality Control Training Plan

Part	Purpose	Intervention	Hours	Performance Measure
1	HR Orientation	HR Classroom orientation	8	
2	Job Familiarization	Incoming Quality Control Procedure	8	• Weekly accomplishment report
		Purchasing Specs for various materials	24	
		Drawing Interpretation	24	
3	Equipment Operations and Hands-on Training	Equipment Training • Nikon NEXIV • Strata	120	• Weekly accomplishment report
4	Data Analysis and Visualization	Power BI Training	8	• Power BI application thru project
5	Problem Solving	7 QC Tools	8	
6	Apply learnings in project that is relevant to the plant and the student	Project: Badge Certification	160	• Completion



Trainer: Mery Grace Cabugwason / Abelyn Dampil
Manager: Marife Quiambao

Appendix F

Student Evaluation on Practicum Host Company and Training



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

STUDENT EVALUATION ON PRACTICUM HOST COMPANY AND TRAINING

IMPORTANT INFORMATION

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

NAME OF HOST COMPANY	DEPARTMENT/SECTION/AREA ASSIGNED
STMicroelectronics	Quality & Reliability
ADDRESS OF COMPANY	
9 Mountain Drive, Light Industry and Science Park II Baringway Ln Mesa, Calamba City	

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

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

PART I: EVALUATION ON PRACTICUM HOST COMPANY

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

ADDITIONAL COMMENTS (STRENGTHS AND AREAS TO IMPROVE)

PART II: EVALUATION ON PRACTICUM TRAINING

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

ADDITIONAL COMMENTS (STRENGTHS AND AREAS TO IMPROVE)


 Julian Marquez V. Jimenez
 SIGNATURE OVER PRINTED NAME OF STUDENT

Appendix G

Student Performance Evaluation



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

PERFORMANCE EVALUATION PRACTICUM / ON-THE-JOB TRAINING

COURSE CODE	CIS441	COURSE TITLE	I.T. Practicum
-------------	--------	--------------	----------------

COMPANY NAME	STMicroelectronics
COMPANY ADDRESS	9 Mountain Drive, LISP II Calamba City Laguna
SUPERVISOR'S NAME	Nathaniel Rondain
DATE OF TRAINING	April 22, 2025

INSTRUCTION TO THE EVALUATOR:
Kindly rate the student in each of the traits indicated below using rating scale that corresponds to the criteria of his performance in your unit/ department. Please send accomplished form in a sealed envelope to the Course Coordinator of Malayan Colleges Laguna through the student trainee.

SCORING RUBRIC FOR SOFT SKILLS

1	2	3	4	5
POOR	FAIR	SATISFACTORY	VERY GOOD	EXCELLENT

A. DEMONSTRATION OF SOFT SKILLS (40%)					
KEY AREAS	1	2	3	4	5
COMMUNICATION SKILLS (20%)					
Relates to co-trainees/supervisors terminologies and rules				/	
Recites procedures and instructions needed for the tasks					/
Identifies and describes safety signs and symbols				/	
Asks critical questions related to the tasks					/
Produces well-written regular and incident reports				/	
Prepares and presents reports using Information and Communication Technology (ICT)					/
PROFESSIONAL DEPORTMENT (20%)					
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%)					
Volunteers to perform tasks beyond routine tasks					/

Page 1 of 2

FORM OVPAA 030J

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

THIS FORM IS AVAILABLE AT THE OVPAA.

SCORING RUBRIC FOR TECHNICAL SKILLS

1	2	3	4	5	N/A
POSSESSES BASIC KNOWLEDGE ON TASKS	ABLE TO EXPLAIN TASKS AND PROCESSES	PERFORMS THE TASKS SATISFACTORILY	ADAPTS TO NON-IDEAL SITUATIONS	INNOVATIVE / CREATIVE	NOT APPLICABLE

A. DEMONSTRATION OF TECHNICAL SKILLS (60%)		(To be drafted per program based on the SOs)					
KEY AREAS		1	2	3	4	5	N/A
10% SKILLS (X%)							
1. Power BI Training Completion and Application						/	
2. 7 QC Tool Completion and Application					/		
20% SKILLS (Y%)							
1. Incoming Quality Control Procedure Understanding and Application					/		
2. Technical Drawing Understanding and Application to IQC						/	
3. First Article Inspection Tracker Completion						/	
30% SKILLS (Z%)							
1. Development and Deployment of Supplier Borrowers System						/	
2. Development and Deployment of IQC Badge Certification System						/	
INITIATIVE (+5%) Additional points may be given for outstanding performance							
Proposes short-term solutions to an existing problem in the area of the assignment						/	

Comments

Julian delivered high-quality work, demonstrated a proactive attitude, and adapted quickly to challenges. His effective collaboration and commitment to learning were commendable and significantly contributing to completion of assigned projects.

Evaluated by: Nathaniel Rondain Quality & Reliability 18-JUL-2025
 (Signature over printed name) (Designation) (Date)

Appendix H

Signed Daily Time Record



DAILY TIME RECORD*

REVISION NO.: 00
REVISION DATE: May 15, 2018

NAME OF STUDENT Julian Manuel V. Jimenez					NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO STMicroelectronics/Quality and Reliability				
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	7:3 AM	5:31 PM	8.5		30	7:15 AM	5:30 PM	8.5	
31					31				

VERIFIED BY: Nathaniel P. Rodain

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 OVPA 030H



DAILY TIME RECORD*

REVISION NO.: 00
REVISION DATE: May 15, 2018

NAME OF STUDENT Julian Manuel V. Jimenez					NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO STMicroelectronics/Quality and Reliability				
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				
15					15				
16					16				
17	7:02 AM	5:31 PM	8.5		17				
18					18				
19					19				
20					20				
21					21				
22					22				
23	7:20 AM	5:30 PM	8.5		23				
24	7:49 AM	5:31 PM	8.5		24				
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				
29					29				
30	7:48 AM	5:31 PM	8.5		30				
31					31				

VERIFIED BY: Nathaniel P. Rodain

Signature over printed name of Practicum Supervisor

Date: July 10, 2025

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FORM OVPA 030H

Appendix I

Complete Weekly Journal



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

Upon arrival at STMicroelectronics, we were oriented by the assigned HR personnel for OJTs, Ms. Jovy Ordonia, and accommodated in the Diamond Hall. The day focused on submitting and processing OJT requirements such as contracts and HMO forms, followed by an orientation covering the company's mission, vision, core values, global operations, and workplace policies. The following day, we attended a training session on the 7 QC tools in the Ruby Room. The session covered key quality control tools including cause-and-effect diagrams, check sheets, control charts, histograms, Pareto charts, scatter diagrams, and flow charts, along with their applications in data analysis and problem-solving. On the next day, I was deployed to my assigned department, Quality and Reliability (Q&R). I was introduced to the staff, who provided guidance and support during the familiarization process. They assisted me in understanding the tasks and responsibilities, I will be handling throughout the duration of my OJT. Overall, the initial days consisted of onboarding, training, and department deployment, providing a solid foundation for the rest of the program.


TRAINEE'S SIGNATURE

DAILY JOURNAL

IMPORTANT INFORMATION

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

From Monday to Tuesday, I was still awaiting official task assignments from my senior supervisors, who were occupied with a heavy workload. In the meantime, I was given the opportunity to assist by encoding data that was provided to me. The staff guided me through the encoding process, and I was able to complete the assigned tasks efficiently.

On Wednesday, I was given a tour of the Incoming Quality Control (IQC) room. During the tour, the staff introduced me to the various tools and equipment used in the IQC process, helping me become more familiar with the procedures and functions within the department. By Friday, we had a meeting with the IT Head, Sir Charles, to discuss the implementation of the system that I will be developing for the Quality and Reliability (Q&R) department. The meeting covered the initial planning phase, including system objectives, expected functionalities, and how it will support the department's operations.



TRAINEE'S SIGNATURE


DAILY JOURNAL

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

This week, I completed the Incoming Quality Control Procedure module and passed the corresponding exam. I also finished training on Purchasing Specifications for various materials and successfully passed the exam on the same day. These sessions deepened my understanding of the QC process and technical specifications used during incoming inspections. I practiced interpreting supplier requirements and material specs. The assessments helped reinforce my knowledge. Overall, I wrapped up both modules confidently and on schedule.


 TRAINEE'S SIGNATURE

DAILY JOURNAL

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

I focused on Power BI training and data visualization this week. I learned how to import IQC data and create basic dashboards to track defect trends and supplier performance. I practiced designing charts, applying filters, and customizing reports. The training helped me understand how to turn raw data into insights. I also reviewed sample IQC reports to compare formatting and presentation techniques. By the end of the week, I created my first functional dashboard based on sample IQC data.

TRAINEE'S SIGNATURE

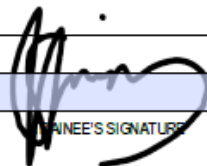
DAILY JOURNAL

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

This week centered on hands-on equipment training using the Nikon NEXIV system. I learned how to operate the machine, perform basic measurements, and calibrate the equipment. I practiced inspecting different sample parts to understand how tolerances are measured digitally. It was also a good opportunity to observe live inspections and understand inspection planning. The training helped me become comfortable with the equipment interface and procedures. I completed all the required tasks under supervision.



INSTRUCTOR'S SIGNATURE

DAILY JOURNAL

IMPORTANT INFORMATION

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

Project work began this week. I started with problem identification and data collection for my assigned IQC improvement project. Aside from project planning, I participated in additional hands-on checks with the Strata inspection system. This allowed me to refine my inspection techniques and understand more complex part geometries. I also met with a supervisor to align project objectives with plant quality goals. Progress on both technical training and project definition was steady.

PRACTICUM ADVISER'S SIGNATURE

DAILY JOURNAL

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

My project work continued with a deeper analysis of past IQC records and defect trends. I identified key materials and suppliers that frequently appeared in quality issues. I used this data to narrow my project scope and draft a proposed improvement plan. As a minor side activity, I briefly revisited the Nikon NEXIV machine to recheck some sample measurements, ensuring I still had good control over inspection techniques. Progress was steady and focused.

TRAINEE'S SIGNATURE

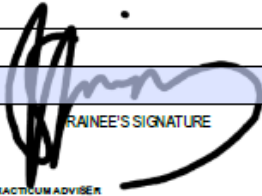
DAILY JOURNAL

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

This week, I concentrated on organizing and reviewing the inspection data I had collected for my project. I categorized the defects based on material type and frequency, which helped me pinpoint which items needed the most attention. I began drafting possible solutions to address the recurring issues and planned how I would implement them in the following weeks. I also documented my observations and began outlining the structure of my final report. Most of the week was dedicated to analysis, interpretation, and refining the direction of the project.


RAINEE'S SIGNATURE

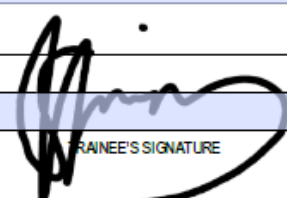
DAILY JOURNAL

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

I began implementing small changes based on my project findings, including revised inspection points for certain materials. I tracked the impact of these changes daily using my dashboard. On the side, I spent a short session reviewing the 7 QC Tools, specifically the Pareto Chart, to evaluate whether it could better support my project visuals. This helped refine how I present recurring issues. The week was focused but productive.


TRAINEE'S SIGNATURE



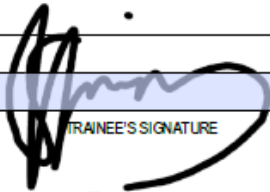
DAILY JOURNAL

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

This week, I focused on reviewing and analyzing the results from the changes I had implemented in my project. I compared the updated inspection data to the baseline and noted measurable improvements in certain defect categories. I refined my action plan based on these findings and documented key observations to include in my final report. I also began drafting the conclusion section of my project, summarizing the impact of the improvements made. As a brief side task, I reviewed a drawing related to one of the inspected items to confirm spec alignment. The rest of the week was fully dedicated to pushing the project toward completion.


TRAINEE'S SIGNATURE

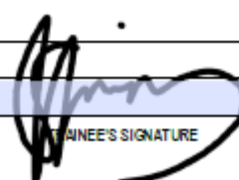
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DATE	June 30, July 1-4, 2025	AREA ASSIGNMENT	STMicronics
TASK	Project	SHIFT/TIME	8:00am - 5:30pm

I finalized the core results of my project, showing trends in inspection results and effectiveness of minor process improvements. I also started preparing the summary report and presentation slides. As a side activity, I reviewed one of the Strata system's training guides to check if it could complement my project scope, though I didn't use it directly. My main focus was building a clear and informative presentation for review.



STUDENT'S SIGNATURE

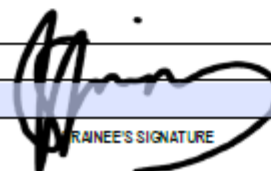
DAILY JOURNAL

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

I finalized the core results of my project, showing trends in inspection results and effectiveness of minor process improvements. I also started preparing the summary report and presentation slides. As a side activity, I reviewed one of the Strata system's training guides to check if it could complement my project scope, though I didn't use it directly. My main focus was building a clear and informative presentation for review.


TRAINEE'S SIGNATURE



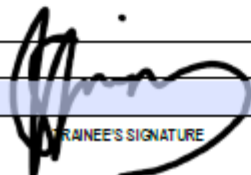
DAILY JOURNAL

IMPORTANT INFORMATION

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

DATE	July 14-18, July 23 2025	AREA ASSIGNMENT	STMicronics
TASK	Final Presentation	SHIFT/TIME	8:00am - 5:30pm

This week, I presented the results of my project to HR and my supervisors from the Quality & Reliability problem, methodology, improvements implemented, and the results achieved. The presentation served as the culmination of my practicum, highlighting my learnings and the overall impact of the project. After the presentation, I worked on revising and organizing all the necessary documents, including my final report, project files, and supporting data. I also compiled my overall assessments, learnings, and reflections from the entire training period. These were prepared to fulfill all practicum requirements for final submission. The week marked the formal completion of my training and project experience.



TRAINEE'S SIGNATURE