



COLLEGE OF COMPUTER AND INFORMATION SCIENCE

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PRACTICUM NARRATIVE REPORT

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Bachelor of Science in Computer Science

Overview of the Practicum Engagement

Company Background

Lattice Semiconductor Philippines is a regional branch of Lattice Semiconductor Corporation, a U.S.-based company known for its expertise in low-power, field-programmable gate arrays (FPGAs). Headquartered in Hillsboro, Oregon, Lattice Semiconductor has a global presence with operations in key locations including San Jose, Shanghai, Singapore, Penang, and Manila. The Philippine office, located in Muntinlupa City, serves as one of the company's operations centers, contributing to its mission of delivering smart, secure, and connected solutions across industries such as communications, computing, industrial, automotive, and consumer electronics. With a strong focus on innovation and efficiency, Lattice continues to empower its teams worldwide to solve complex problems from the Edge to the Cloud.

Nature of Tasks Given

During my internship, I worked on three main projects: developing a dashboard tracker for my team, using Python scripts to generate consistent images for their application, and enhancing the HTML of the Radiant Help of the Company.

The dashboard tracker is a challenging task. I had no direct guidance, and even within the team, no one had a background in software development or software engineering. I had to rely entirely on the knowledge I had gained throughout college—applying logic, designing and connecting databases, planning ERDs, and using software engineering principles. The only resource I was given was an Excel file. From that, I cleaned and prepared the data, then built the entire system from scratch.

The system is not going to be hosted, and is only accessible for the local user, allowing the team or the users to have their data confidential. For data visualization, I integrated Chart.js due to its flexibility, ease of integration with web technologies, and ability to create interactive and responsive charts. After a few weeks, I presented the

software to the team, gathered their feedback, and made improvements based on their suggestions.

The second project I've worked on is solving inconsistencies in the images used for the FPGA libraries in their web application or the company's online help. The team had been facing issues with image sizes and formatting—some were too large or too small, and others had inconsistent text styles. To address this, I used Python scripts that generated standardized images. These images were then imported into Adobe FrameMaker using WebWorks ePublisher to ensure they displayed correctly on the web.

For the third project, I focused on enhancing the overall display and functionality of the Radiant Online Help for Lattice Semiconductor Philippines. The team was encountering two main issues: first, the dropdown sections would only expand when clicked and wouldn't collapse unless the small arrow icon beside the section name was used; second, the pages didn't show a horizontal scroll bar when the text was too long, causing the content to wrap or become compressed. To address these problems, I modified the JavaScript controlling the dropdown behavior and updated the CSS to enable horizontal scrolling. These changes improved both the usability and readability of the help system.

Total Hours Rendered

At Lattice Semiconductor Philippines, trainees are required to work from 8:00 AM to 5:00 PM during the weekdays. While Mondays are designated as work-from-home days, I often still choose to work onsite. The office provides a more spacious and comfortable workspace compared to my set-up at home. It also offers perks like free air conditioning, complimentary snacks, an extra monitor, and fast internet—making it a more productive environment for me. The time I received the projects needed for me, I started doing them since I only got a very limited time. Table 1 shows how the hours were distributed across the different projects I worked on during my practicum.

Table 1. *Hours allocation for projects*

PROJECT	TASK	HOURS ALLOCATED
Dashboard tracker	Data Preprocessing	8
Dashboard tracker	Data Modeling and System Design	16
Dashboard tracker	System Development	180
Generating Images and Adobe Framemaker Contents	Generate Image Using Python Script	72
Enhancing Radiant Online Help HTML	Dropdown Issue and Horizontal Scroll Bar	8
Generating Images and Adobe Framemaker Contents	Adobe Framemaker Contents Clean Up and Images Importation	40
TOTAL		324

As part of my practicum, I was expected to complete 40 hours per week, which should have taken around 8 to 9 weeks. However, due to holidays and school-related matters that required me to take occasional leaves, the duration of my practicum was extended, and the expected end date has been moved.

In total, I rendered 324 hours, successfully fulfilling the required number of hours for my course.

Presentation of Output

Dashboard Tracker

The Dashboard Tracker is a custom tool designed to monitor and manage tasks assigned to individual users—referred to as "writers"—within the software technical publication team. It allows each writer to view all their assigned tasks, including those that are pending, completed, or currently unchanged. Additionally, users can assign tasks to other writers, making it a collaborative and flexible tool for task management.

Each task entry in the tracker includes important details such as the document name, section, subsection, comments, assigned subject matter expert, task completion status, and a color-coded indicator that reflects the task's current state or required action. This visual and structured approach helps writers quickly understand what needs to be done, reducing the time spent navigating through raw data in Excel files.

This tool significantly improves task visibility and efficiency for the team. It is specifically tailored for the software technical publication group I was assigned to during my practicum and is not used company-wide at Lattice Semiconductor. Nonetheless, it has proven to be a valuable resource for both the writers and the team manager, offering a clearer and faster way to track progress and responsibilities.

Preprocessing

The only resource provided to me was a raw Excel file, which required significant preprocessing before it could be used effectively. The dataset contained several issues: duplicate entries, blank fields, inconsistent formatting, and unnecessary whitespace. One major challenge was the inconsistency in how writer names were recorded. For instance, the same person might appear as “Jonathan” in one entry and “Bunquin” in another—making it difficult for the system to recognize them as the same individual. So, I had to make them consistent.

Another complication was the absence of a proper 'color' column. Instead of storing color data in a readable format, the original file used cell highlighting to indicate

categories or statuses. This method is not efficient for automated processing. To resolve this, I created a new column labeled ‘color’ and manually extracted the cell highlight colors into this column. This allowed the system to interpret the data accurately and consistently.

Figures 1 to 2 illustrate the transformation from the raw dataset to the cleaned and structured version, highlighting the improvements made during preprocessing.

This screenshot shows a Microsoft Excel spreadsheet with data from rows 1 to 24. The columns are labeled A through L. Row 1 contains column headers and a detailed legend for the 'Comments' and 'color' columns. The 'Comments' column uses color coding: Green = ready for QA; Yellow = In progress, needs update; Grey = Not needed for current release; White = no changes from existing; Orange = updates pushed out to next release. The 'color' column lists the corresponding Excel colors: yellow, green, yellow, white, yellow, white, white. The data rows represent various documentation tasks, such as 'Getting Started with Radiant', 'Managing Projects', and 'Viewing Logs and Reports', each with its respective writer, comments, and status.

Figure 1. Raw Data in Excel

This screenshot shows the same Microsoft Excel spreadsheet as Figure 1, but with significant cleaning applied. The 'color' column now contains specific text values representing the original colors: 'yellow 50%', 'green 100%', 'yellow 50%', 'white 30%', 'white 30%'. The 'Reviewed and Approved' column now contains detailed information for each row, such as 'Reviewed by [Name] on [Date]' for each task. The rest of the data structure remains identical to Figure 1.

Figure 2. Cleaned Data in Excel

Data Modelling

After completing the data preprocessing, I moved on to designing the database structure by creating an Entity-Relationship Diagram (ERD) using Lucidchart. The database was structured around three core tables to ensure clarity, scalability, and proper normalization. The first table, called writers, stores the names of all users in the system. Each writer is uniquely identified and serves as a reference point for task assignments.

The second table, tasks, contains all relevant task information, including the document title, section, subsection, comments, assigned SME (Subject Matter Expert), color coding, completion status, and the date the task was created. This table serves as the central repository for all task-related data.

To establish a many-to-many relationship between writers and tasks, I created a third table called tasks_writers. This junction table links the primary keys of both the writers and tasks tables, allowing the system to track which tasks are assigned to which writers efficiently.

Figures 3 to 4 illustrate the ERD and the corresponding models.py implementation developed in Visual Studio Code.

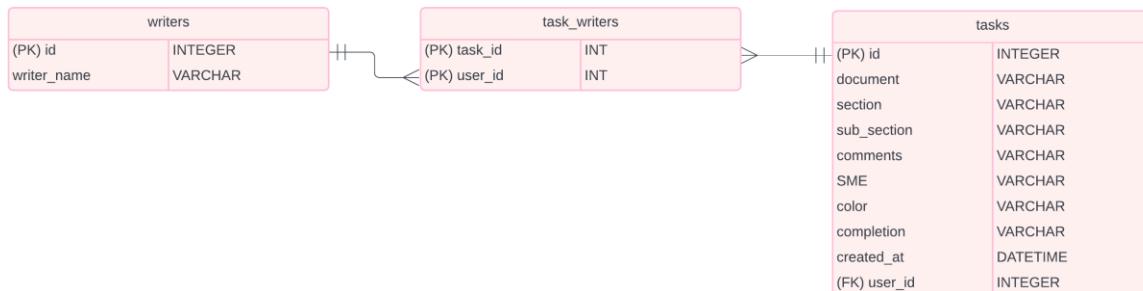


Figure 3. Entity Relationship Diagram of Dashboard System

```

Windsurf: Refactor | Explain
class Writers(models.Model):
    writer_name = models.CharField(max_length=255)

Windsurf: Refactor | Explain | Generate Docstring | X
def __str__(self):
    return f"{self.writer_name }"

Windsurf: Refactor | Explain
class Task(models.Model):
    document = models.CharField(max_length=255)
    section = models.CharField(max_length=255)
    sub_section = models.CharField(max_length=255)
    comments = models.TextField()
    SME = models.CharField(max_length=255, blank=True, null=True)
    color = models.CharField(max_length=50)
    completion = models.CharField(max_length=100, default='0%')
    created_at = models.DateTimeField(auto_now_add=True) # Add this Line
Windsurf: Refactor | Explain | Generate Docstring | X
def __str__(self):
    return f"Task {self.id} - {self.document}: {self.section} - {self.sub_section}""

Windsurf: Refactor | Explain
class TaskWriter(models.Model):
    task = models.ForeignKey(Task, on_delete=models.CASCADE)
    writer = models.ForeignKey(Writers, on_delete=models.CASCADE)
Windsurf: Refactor | Explain
class Meta:
    unique_together = ('task', 'writer')
Windsurf: Refactor | Explain | Generate Docstring | X
def __str__(self):
    return f"{self.writer.writer_name} ({self.writer.id}) assigned for {self.task.document}. ID: {self.task.id}"

```

Figure 4. models.py in Visual Studio Code

System Development

The Dashboard Tracker features two main pages: the Dashboard (or Home) and the Tasks page. Upon successful login, users are immediately directed to the Dashboard, which displays all tasks assigned to them. This design choice was intentional, as the primary users—referred to as "writers"—need quick and easy access to their task lists without having to navigate through multiple menus. The Dashboard provides a clear overview of their responsibilities right after logging in, streamlining their workflow. Figures 5 and 6 illustrate the layout and content of the Dashboard page.

Online Help Dashboard

Version: 2025.1 [Edit](#)

[Logout](#)

[Download Excel](#)

Section	Sub	Completion
Managing Projects	Saving Project Files	30%
Testing and Debugging On-Chip	Performing Logic Analysis	50%
Testing and Debugging On-Chip	Creating Reveal Modules	30%

Section	Sub	Completion
Managing Projects	Managing Project Sources	30%
Testing and Debugging On-Chip	Creating Reveal Modules	30%
Analyzing Static Timing	Using Timing Analyzer	30%
Managing Projects	Viewing Logs and Reports	100%

Section	Sub	Completion
Testing and Debugging On-Chip	Creating Reveal Modules	30%

Section	Sub	Completion
Managing Projects	Viewing Logs and Reports	100%

Figure 5. Dashboard Home Page – part 1

Section	Sub	Completion
Managing Projects	Designing with Soft IP, Modules, and PMI	30%
Analyzing Power Consumption	Controlling Operating Temperature	30%
Analyzing Power	Entering Data	50%

Section	Sub	Completion
Managing Projects	Introduction	30%
Testing and Debugging On-Chip	Reveal Controller	30%
Testing and Debugging On-Chip	Creating Reveal Modules	30%

Section	Sub	Completion
Installation Guide-Linux	All	30%
Installation Guide-Windows	(no subsection)	30%
ModelSim docs	(no subsection)	30%
Synopsys docs	(no subsection)	30%

Figure 6. Dashboard Home Page – part 2

The page is organized into separate sections, with each writer having their own dedicated box displaying the tasks assigned to them. This layout allows users to quickly scan and identify their responsibilities. However, if a writer feels overwhelmed by the amount of information—especially since tasks for all writers are visible—they can simply click on their name. Each name functions as a clickable link that redirects the user

to a personalized page showing only their assigned tasks. Figures 7 to 9 illustrates the redirected page that appears after a user clicks on their name.

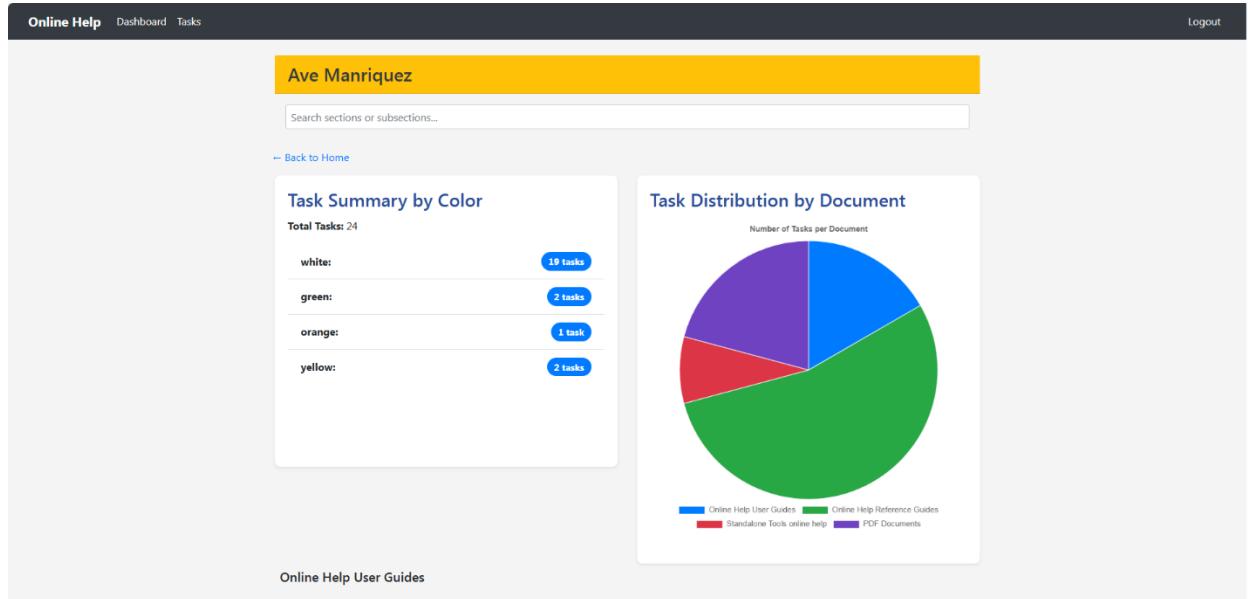


Figure 7. Tasks per user – part 1

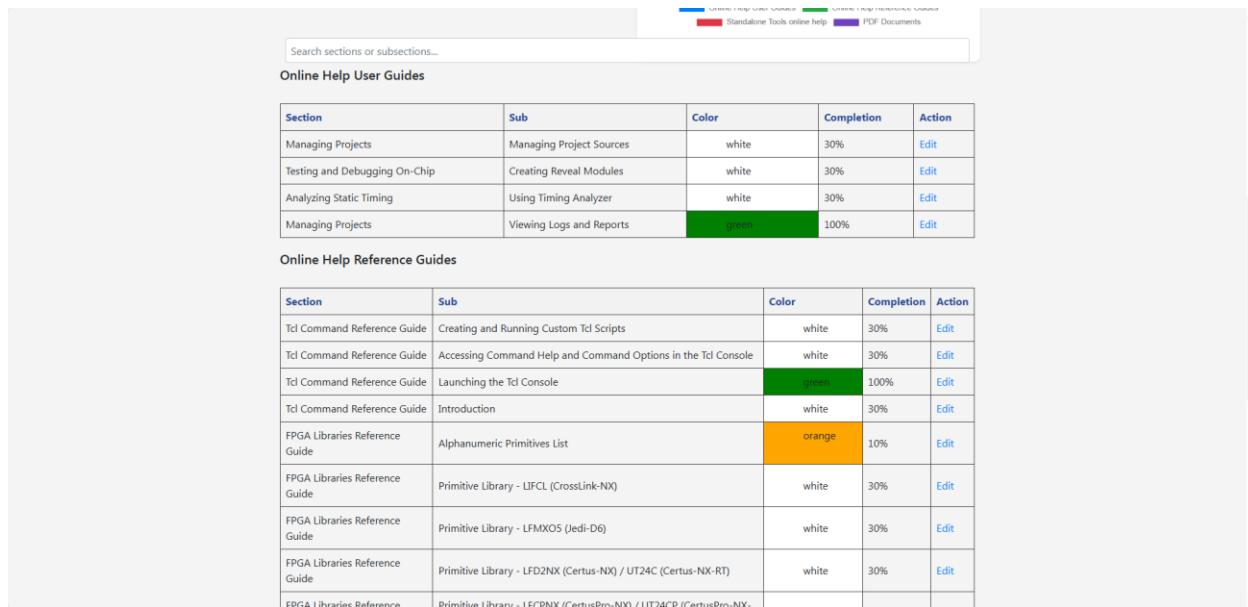


Figure 8. Tasks per user – part 2

Guide	Primitive Library - LTHUZNA (LERTUS-NX) / UL24L (LERTUS-NX-K1)	white	30%	Edit
Search sections or subsections...				
Constraints Reference Guide	Lattice Synthesis Engine Constraints	white	30%	Edit
Strategy Reference Guide	Timing Simulation Options	white	30%	Edit
Strategy Reference Guide	Post-Synthesis Timing Analysis Options	white	30%	Edit
Strategy Reference Guide	Post-Synthesis Options	white	30%	Edit
Standalone Tools online help				
Section	Sub	Color	Completion	Action
Stand-Alone Reveal	(no subsection)	white	30%	Edit
Stand-Alone Programmer	(no subsection)	white	30%	Edit
PDF Documents				
Section	Sub	Color	Completion	Action
Readme	PARTIAL	white	30%	Edit
Readme	(no subsection)	white	30%	Edit
Release Notes	Known Issues	white	30%	Edit
nan	(no subsection)	yellow	50%	Edit
Release Notes	All	yellow	50%	Edit

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Figure 9. Tasks per user – part 3

On this page, users can click on individual subsections to update specific details such as comments, task completion status, and color indicators. As shown in Figure 7, a task summary is also displayed, providing an overview of the number of tasks in each category. These summary numbers are interactive—clicking on any of them redirects the user to a filtered view that displays only the tasks within that category. For example, if a user clicks on the number representing yellow-tagged tasks, they will be taken to a page showing only those tasks. This feature helps users quickly filter and focus on the tasks they want to prioritize.

Moving on to the second main section of the Dashboard Tracker—the Tasks page—this part of the system displays all tasks stored in the database. Unlike the Dashboard page, which is designed for users to view their assigned tasks, the Tasks page is primarily intended for assigning tasks to writers. While users can still see which writers have existing assignments, they cannot edit task details such as completion status, color, or comments on this page. Its main function is to facilitate task assignment, not to update progress. Figures 10 and 11 present the layout and features of the Tasks page.

The screenshot shows a dashboard titled "Online Help" with a search bar and two buttons: "Radiant Documentation" and "Assign".

- Online Help User Guides:**

Writer	Section	Subsection	SME
no writer	Getting Started with Radiant	Debugging the Software License	nan
no writer	Getting Started with Radiant	Copyright, Trademarks, and Disclaimers	nan
Verna Deatras	Managing Projects	Introduction	nan
- Online Help Reference Guides:**

Writer	Section	Subsection	SME
Verna Deatras	Strategy Reference Guide	Introduction	nan
no writer	Strategy Reference Guide	Constraint Propagation Engine	nan
- Standalone Tools online help:**

Writer	Section	Subsection	SME
Verna Deatras	Stand-Alone Programmer	(no subsection)	nan
Ave Manriquez	Stand-Alone Programmer	(no subsection)	nan
Ruby-Ann Daliva	Stand-Alone Reveal	(no subsection)	nan
Adel Jambalos	Stand-Alone Reveal	(no subsection)	nan
Ave Manriquez	Stand-Alone Reveal	(no subsection)	nan
- PDF Documents:**

Writer	Section	Subsection	SME
Verna Deatras	Radiant Migration from Diamond Guide	(no subsection)	nan
Verna Deatras	Radiant Migration from iCECube2	(no subsection)	nan
Verna Deatras	Radiant Tutorial	All	nan
Ruby-Ann		nn	

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Figure 10. Tasks page – part 1

The screenshot shows a dashboard titled "Online Help" with a search bar and two buttons: "Radiant Documentation" and "Assign".

- Document 1:** Ave Manriquez, Managing Projects, Viewing Logs and Reports, Jaginder Singh
- Document 2:** Ave Manriquez, Managing Projects, Viewing Logs and Reports, Jaginder Singh
- Document 3:** no writer, Managing Projects, Setting Tool and Environment Options, nan
- Document 4:** Verna Deatras, Managing, nan, nan
- Document 5:** Ave Manriquez, FPGA Libraries Reference Guide, Primitive Library - LIFCL (CrossLink-NX), nan
- Document 6:** Ave Manriquez, FPGA Libraries Reference Guide, Alphanumeric Primitives List, Cindy Lee Michael Schneider
- Document 7:** Verna Deatras, FPGA Libraries Reference, Khronos EAPR, Cindy Lee Ian Kwan/Jaginder Singh

The middle document (Document 2) is highlighted in orange.

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Figure 11. Tasks page – part 2

Each box on the Tasks page represents a document, and the name of the document serves as a clickable link. When clicked, it redirects the user to a new page displaying the sections within that document. These sections are also editable. Clicking on a section leads to another page that shows its corresponding subsections. From there, if a user clicks on a specific subsection, they are taken to a detailed view showing the writers and

Subject Matter Experts (SMEs) assigned to that subsection. On this page, users have the ability to add or remove writers and update the assigned SME. This multi-level navigation structure allows for efficient task management and detailed editing. Figures 12 to 17 illustrate the step-by-step functionality of this feature as users navigate through the different levels of the Tasks page.

The screenshot shows a web application interface. At the top, there is a dark header bar with the text "Online Help" and "Logout". Below the header, a blue navigation bar contains links for "Dashboard" and "Tasks", along with a "Back to Tasks" link. The main content area has a yellow header bar titled "Radiant Documentation" with an "Edit" button. Below this, a list of documentation types is displayed: "Online Help User Guides", "Online Help Reference Guides", "Standalone Tools online help", and "PDF Documents". At the bottom of the page, a footer bar displays the text "All rights reserved © 2025".

Figure 12. Documentations Displayed of Radiant Documentation

The screenshot shows a web application interface. At the top, there is a dark header bar with the text "Online Help" and "Logout". Below the header, a blue navigation bar contains links for "Dashboard" and "Tasks", along with a "Back to Radiant Documentation" link. The main content area has a yellow header bar titled "Document Editor:" with an "Add Document" button. Below this, a list of documents is displayed with a "Delete" button next to each item: "Online Help User Guides", "Online Help Reference Guides", "Standalone Tools online help", and "PDF Documents". At the bottom of the page, a footer bar displays the text "All rights reserved © 2025".

Figure 13. Documentation Editor for Documents

Online Help Reference Guides

[Edit](#)

Strategy Reference Guide
Constraints Reference Guide
Lattice Module Reference Guide
nan
FPGA Libraries Reference Guide
Command Line Reference Guide
Tcl Command Reference Guide

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Figure 14. Sections Displayed After Document Selection

Section Editor

[Add Section](#)

Strategy Reference Guide	Remove
Constraints Reference Guide	Remove
Lattice Module Reference Guide	Remove
nan	Remove
FPGA Libraries Reference Guide	Remove
Command Line Reference Guide	Remove
Tcl Command Reference Guide	Remove

Figure 15. Section Editor for Sections

The screenshot shows a user interface for a 'Strategy Reference Guide'. At the top, there is a dark header bar with 'Online Help', 'Dashboard', 'Tasks', and 'Login' buttons. Below the header is a yellow navigation bar with the title 'Strategy Reference Guide' and an 'Edit' button. The main content area displays a list of subsections under the heading 'Strategy Reference Guide'. The listed subsections are:

- Introduction
- Constraint Propagation Engine
- Synplify Pro Options
- LSE Options
- (no subsection)
- Post-Synthesis Options
- Post-Synthesis Timing Analysis Options
- Post-Synthesis Timing Analysis Options
- Map Design Options
- Map Timing Analysis Options
- Place & Route Design Options
- Place & Route Timina Analysis Options

Figure 16. Subsections Displayed After Section Selection

The screenshot shows a 'Subsection Editor for "Strategy Reference Guide"' interface. At the top, there is a dark header bar with 'Online Help', 'Dashboard', 'Tasks', and 'Login' buttons. Below the header is a yellow navigation bar with the title 'Subsection Editor for "Strategy Reference Guide"' and an 'Add Subsection' button. The main content area displays a list of subsections with a 'Remove' button next to each one. The listed subsections are:

- Introduction
- Constraint Propagation Engine
- Synplify Pro Options
- LSE Options
- (no subsection)
- Post-Synthesis Options

Figure 17. Subsection Editor for Subsections

The screenshot shows a software interface for managing writers and subject matter experts (SMEs). At the top, there's a dark header bar with 'Online Help', 'Dashboard', 'Tasks', and 'Login' buttons. Below the header, a yellow banner reads 'Online Help Reference Guides — Strategy Reference Guide — Introduction'. A button labeled 'Add Writer' is in the top right corner of this banner. Underneath, a white box is titled 'Writers' and contains the name 'Verna Dearras'. To the right of the name is a red 'Remove' button. Below this is another white box titled 'Subject Matter Expert (SME)'. It contains the heading 'Experts' and the message 'No SME assigned for this task.' At the bottom of the page, a grey footer bar displays the copyright notice 'All rights reserved © 2025'.

Figure 18. Writer and SME Editor After Subsection Selection

The screenshot shows a form titled 'Assign Writer to Task'. The form has several input fields: 'Document:' with a dropdown menu 'Select document', 'Section:' with a dropdown menu 'Select section', 'Subsection:' with a dropdown menu 'Select subsection', and 'Writer:' with a dropdown menu containing a single entry '-----'. At the bottom of the form is a 'Submit' button. The background of the page features a vertical scroll bar on the right side.

Figure 19. Assigning Task to Writer

Python Scripting for FPGA Libraries

Although I was already familiar with Python, using it specifically for scripting tasks was a new experience for me. In our project, the software developer on our team created Python scripts designed to generate images for the FPGA libraries—particularly for the Alphanumeric Primitives List. These scripts were executed on a Linux server, which we

accessed remotely using Exceed TurboX (ETX), a web-based remote desktop platform for Linux environments.

To work within this setup, we used Visual Studio Code on the remote server via ETX. This allowed us to run the scripts and generate the required images efficiently. Figures 20 to 27 illustrate the full process—from logging into ETX to executing the Python scripts and producing the final image outputs.

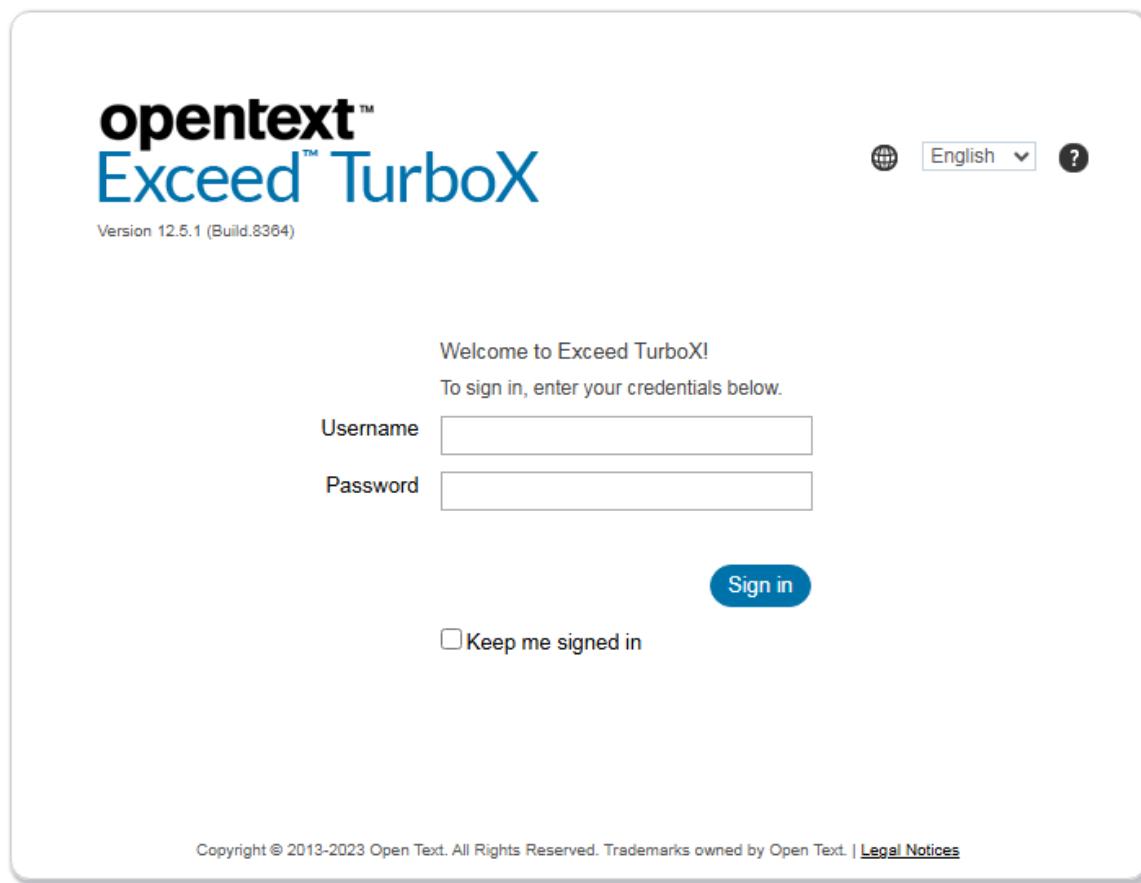


Figure 20. Logging into ETX

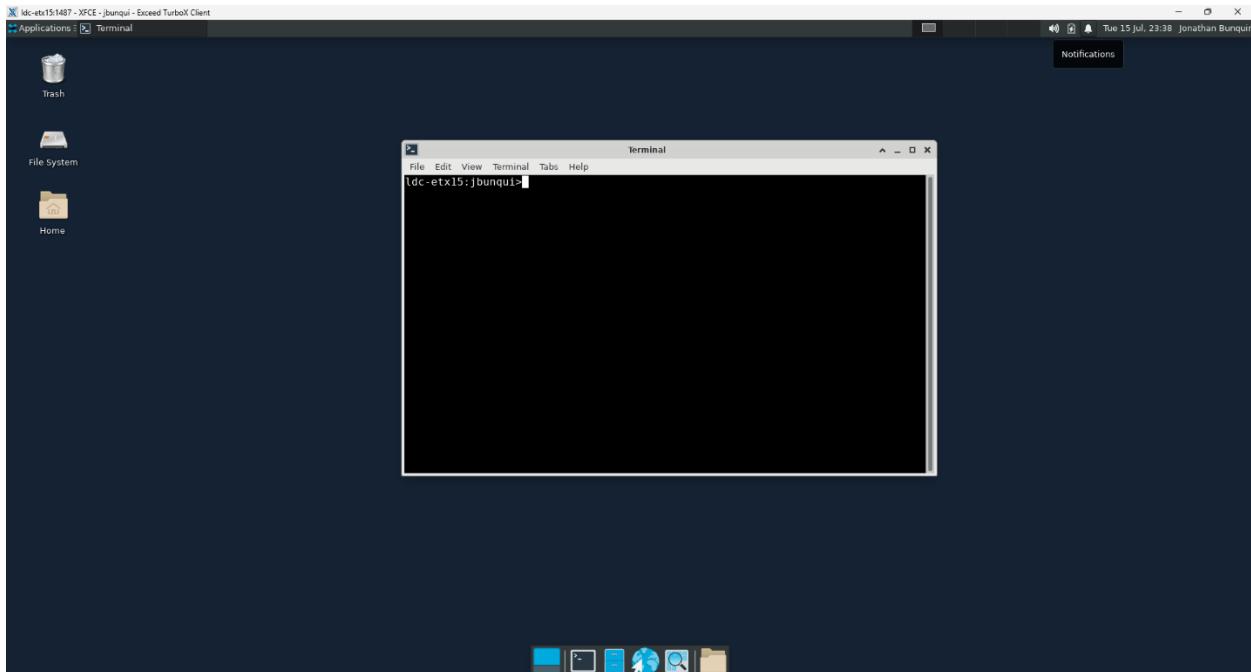
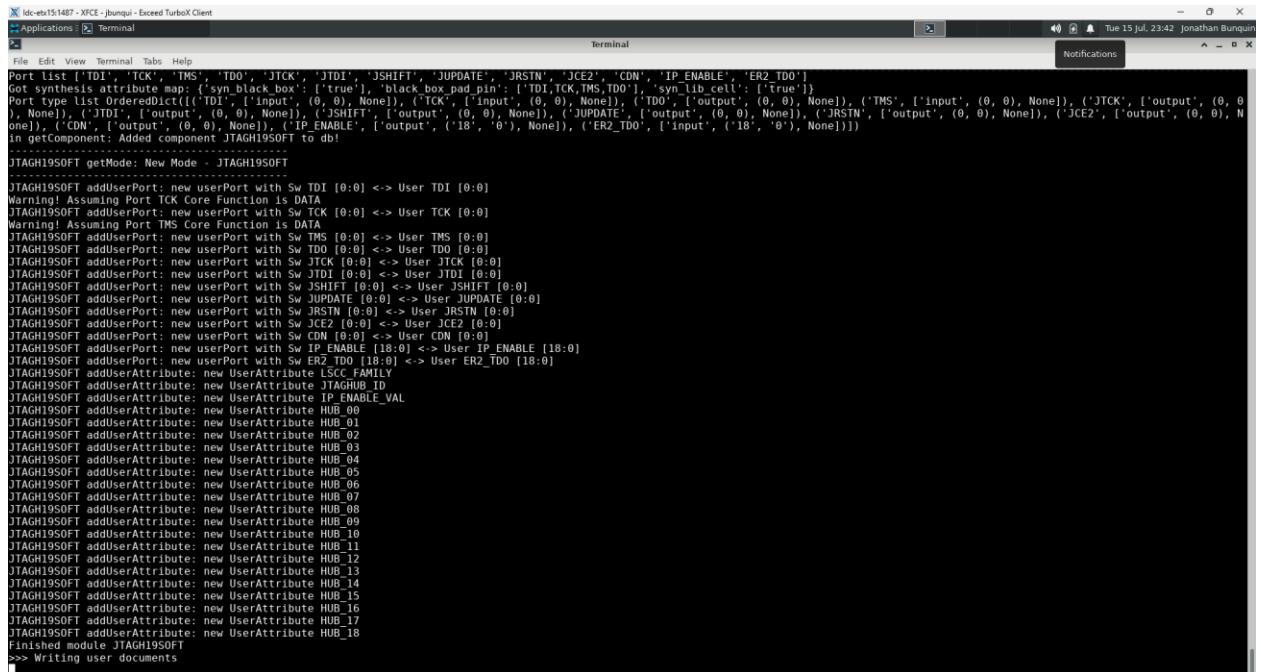


Figure 21. Linux Remote Desktop

A screenshot of a terminal window showing a warning notice and command history. The terminal window has a title bar 'Terminal' and a status bar at the bottom. The main area of the terminal shows the following text:

```
Warning Notice
*****
This system is restricted solely to Lattice Semiconductor, Inc. authorized users for legitimate business purposes only. The actual or attempted unauthorized access, use or modification of this system is strictly prohibited by Lattice Semiconductor, Inc. Unauthorized users are subject to Company disciplinary proceedings and/or criminal and civil penalties under state, federal or other applicable domestic and foreign laws. The use of this system may be monitored and recorded for administrative and security reasons, including but not limited to express consent to such monitoring and is advised that if such monitoring reveals possible evidence of criminal activity, Lattice Semiconductor may provide the evidence of such activity to law enforcement officials. All users must comply with Lattice Semiconductor, Inc. Corporate instructions regarding the protection of Lattice Semiconductor, Inc. information assets.
*****
This computer is administered by Lattice Semiconductor IT R&D Support
*****
svs524.latticesemi.com:jbunqui>cd -r /disks/swrd3/mschnei/ng2024_2.55_for_docs ./
Usage: cd [-l|vnl|[ -|d|r|].
svs524.latticesemi.com:jbunqui>source /home/mschnei/for_docs_team.cshrc
Setting up NG environment for /home/jbunqui/ng2024_2.55_for_docs/env/fpga
svs524.latticesemi.com:jbunqui>setenv PYTHONPATH /disks/swrd3/mschnei/python_3rdparty/lib/python2.7/site-packages:/home/mschnei/python/lib/python
svs524.latticesemi.com:jbunqui>python2.7 $ENV/base/database/basn/tools/infactory/util/genImg/genImg.py ./lifcl.v
```

Figure 22. Python Script Generating Images – part 1

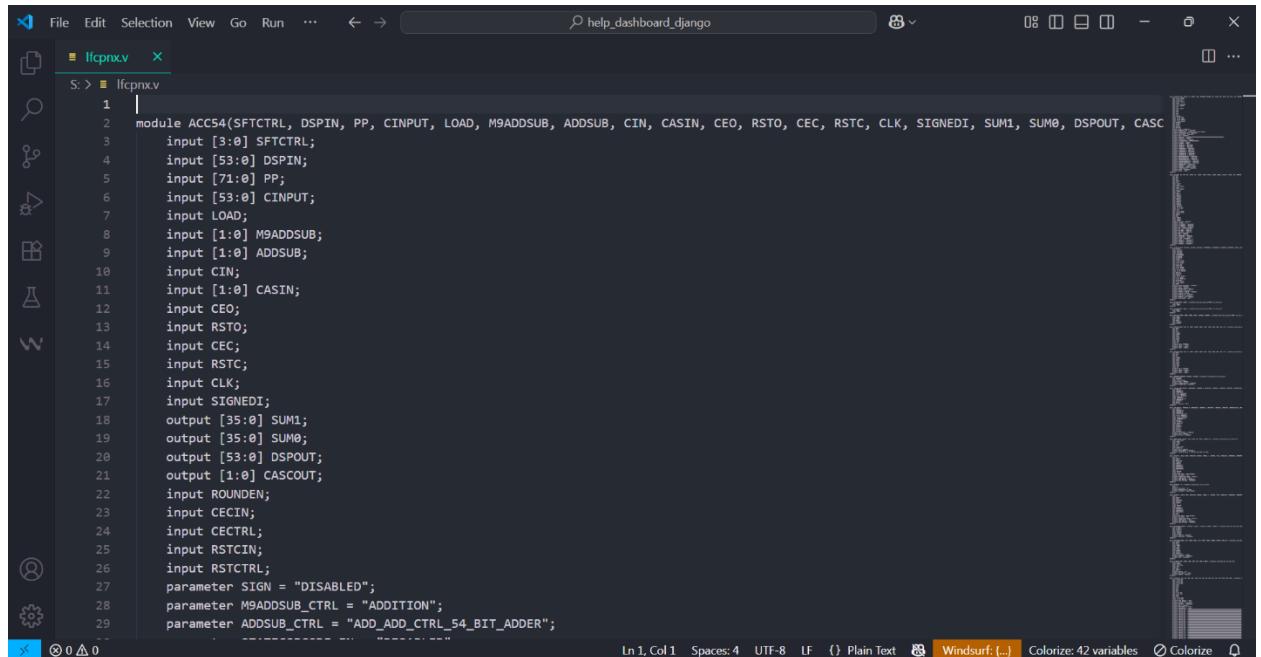


```

Idc-e8151487 - Xfce - Jounqi - Exceed TurboX Client
Applications Terminal
File Edit View Terminal Tabs Help
Terminal
Tue 15 Jul. 23:42 Jonathan Burquin
Port list ['TDI', 'TCK', 'TMS', 'TDO', 'JTCK', 'JTDI', 'JSHIFT', 'JUPDATE', 'JRSTN', 'JCE2', 'CDN', 'IP_ENABLE', 'ER2_TDO']
Got synthesis attribute map: {'syn_black_box': ['true'], 'black_box_pad_pin': ['TDI,TCK,TMS,TDO'], 'syn_lib_cell': ['true']}
Port type list OrderedDict([('TDI', {'input': (0, 0), 'None': 1}), ('TCK', {'input': (0, 0), 'None': 1}), ('TDO', {'output': (0, 0), 'None': 1}), ('TMS', {'input': (0, 0), 'None': 1}), ('JTDI', {'output': (0, 0), 'None': 1}), ('JSHIFT', {'output': (0, 0), 'None': 1}), ('JUPDATE', {'output': (0, 0), 'None': 1}), ('JRSTN', {'output': (0, 0), 'None': 1}), ('JCE2', {'output': (0, 0), 'None': 1}), ('CDN', {'output': ('1B', '0'), 'None': 1}), ('IP_ENABLE', {'output': ('1B', '0'), 'None': 1}), ('ER2_TDO', {'input': ('1B', '0'), 'None': 1})])
in getComponent: Added component JTAGH1950FT to db!
JTAGH1950FT getNode: New Mode = JTAGH1950FT
-----
JTAGH1950FT addUserPort: new userPort with Sw TDI [0:0] <-> User TDI [0:0]
Warning! Assuming Port TCK Core Function is DATA
JTAGH1950FT addUserPort: new userPort with Sw TCK [0:0] <-> User TCK [0:0]
Warning! Assuming Port TMS Core Function is DATA
JTAGH1950FT addUserPort: new userPort with Sw TDO [0:0] <-> User TDO [0:0]
JTAGH1950FT addUserPort: new userPort with Sw JTCK [0:0] <-> User JTCK [0:0]
JTAGH1950FT addUserPort: new userPort with Sw JTDI [0:0] <-> User JTDI [0:0]
JTAGH1950FT addUserPort: new userPort with Sw JSHIFT [0:0] <-> User JSHIFT [0:0]
JTAGH1950FT addUserPort: new userPort with Sw JUPDATE [0:0] <-> User JUPDATE [0:0]
JTAGH1950FT addUserPort: new userPort with Sw JRSTN [0:0] <-> User JRSTN [0:0]
JTAGH1950FT addUserPort: new userPort with Sw JCE2 [0:0] <-> User JCE2 [0:0]
JTAGH1950FT addUserPort: new userPort with Sw CDN [0:0] <-> User CDN [0:0]
JTAGH1950FT addUserPort: new userPort with Sw IP_ENABLE [0:0] <-> User IP_ENABLE [18:0]
JTAGH1950FT addUserPort: new userPort with Sw ER2_TDO [18:0] <-> User ER2_TDO [18:0]
JTAGH1950FT adduserAttribute: new UserAttribute {SCC_FAMILY}
JTAGH1950FT adduserAttribute: new UserAttribute JTAGHUB_ID
JTAGH1950FT adduserAttribute: new UserAttribute IP_ENABLE_VAL
JTAGH1950FT adduserAttribute: new UserAttribute HUB_00
JTAGH1950FT adduserAttribute: new UserAttribute HUB_01
JTAGH1950FT adduserAttribute: new UserAttribute HUB_02
JTAGH1950FT adduserAttribute: new UserAttribute HUB_03
JTAGH1950FT adduserAttribute: new UserAttribute HUB_04
JTAGH1950FT adduserAttribute: new UserAttribute HUB_05
JTAGH1950FT adduserAttribute: new UserAttribute HUB_06
JTAGH1950FT adduserAttribute: new UserAttribute HUB_07
JTAGH1950FT adduserAttribute: new UserAttribute HUB_08
JTAGH1950FT adduserAttribute: new UserAttribute HUB_09
JTAGH1950FT adduserAttribute: new UserAttribute HUB_10
JTAGH1950FT adduserAttribute: new UserAttribute HUB_11
JTAGH1950FT adduserAttribute: new UserAttribute HUB_12
JTAGH1950FT adduserAttribute: new UserAttribute HUB_13
JTAGH1950FT adduserAttribute: new UserAttribute HUB_14
JTAGH1950FT adduserAttribute: new UserAttribute HUB_15
JTAGH1950FT adduserAttribute: new UserAttribute HUB_16
JTAGH1950FT adduserAttribute: new UserAttribute HUB_17
JTAGH1950FT adduserAttribute: new UserAttribute HUB_18
Finished module JTAGH1950FT
>>> Writing user documents

```

Figure 23. Python Script Generating Images – part 2

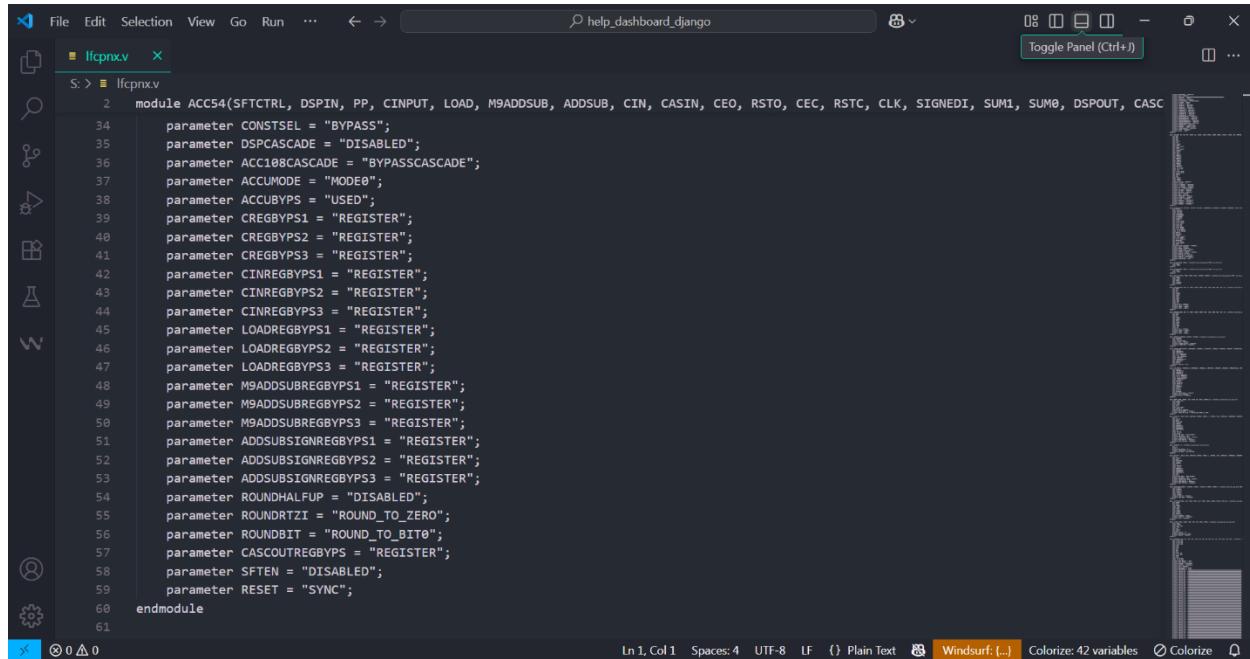


```

File Edit Selection View Go Run ... ← → ⌂ help_dashboard_django
S: > Iifcpnxv Iifcpnx.v
1 |
2 module ACC54(SFTCTRL, DSPIN, PP, CINPUT, LOAD, M9ADDSub, ADDSub, CIN, CASIN, CEO, RSTO, CEC, RSTC, CLK, SIGNEDI, SUM1, SUM0, DSPOUT, CASC
3   input [3:0] SFTCTRL;
4   input [53:0] DSPIN;
5   input [71:0] PP;
6   input [53:0] CINPUT;
7   input LOAD;
8   input [1:0] M9ADDSub;
9   input [1:0] ADDSub;
10  input CIN;
11  input [1:0] CASIN;
12  input CEO;
13  input RSTO;
14  input CEC;
15  input RSTC;
16  input CLK;
17  input SIGNEDI;
18  output [35:0] SUM1;
19  output [35:0] SUM0;
20  output [53:0] DSPOUT;
21  output [1:0] CASCOUT;
22  input ROUNDEN;
23  input CECIN;
24  input CECTRL;
25  input RSTCIN;
26  input RSTCTRL;
27  parameter SIGN = "DISABLED";
28  parameter M9ADDSub_CTRL = "ADDITION";
29  parameter ADDSub_CTRL = "ADD_ADD_CTRL_54_BIT_ADDER";

```

Figure 24. Verilog file Sample – part 1



```

File Edit Selection View Go Run ... ← → ⌂ help_dashboard_django ⌂ Toggle Panel (Ctrl+J) ×
Ifcpxv Ifcpxv
S: > Ifcpxv.v
2 module ACC54(SFTCTRL, DSPIN, PP, CINPUT, LOAD, M9ADDSSUB, ADDSUB, CIN, CASIN, CEO, RSTO, CEC, RSTC, CLK, SIGNEDI, SUM1, SUM0, DSPOUT, CASC
34     parameter CONSTSEL = "BYPASS";
35     parameter DSPCASCADE = "DISABLED";
36     parameter ACC108CASCADE = "BYPASSCASCADE";
37     parameter ACCUMODE = "MODE0";
38     parameter ACCUBYPS = "USED";
39     parameter CREGBYP51 = "REGISTER";
40     parameter CREGBYP52 = "REGISTER";
41     parameter CREGBYP53 = "REGISTER";
42     parameter CINREGBYP51 = "REGISTER";
43     parameter CINREGBYP52 = "REGISTER";
44     parameter CINREGBYP53 = "REGISTER";
45     parameter LOADREGBYP51 = "REGISTER";
46     parameter LOADREGBYP52 = "REGISTER";
47     parameter LOADREGBYP53 = "REGISTER";
48     parameter M9ADDSSUBREGBYP51 = "REGISTER";
49     parameter M9ADDSSUBREGBYP52 = "REGISTER";
50     parameter M9ADDSSUBREGBYP53 = "REGISTER";
51     parameter ADDSUBSIGNREGBYP51 = "REGISTER";
52     parameter ADDSUBSIGNREGBYP52 = "REGISTER";
53     parameter ADDSUBSIGNREGBYP53 = "REGISTER";
54     parameter ROUNDHALFUP = "DISABLED";
55     parameter ROUNDRTZI = "ROUND_TO_ZERO";
56     parameter ROUNDBIT = "ROUND_TO_BIT0";
57     parameter CASCOUTREGBYP5 = "REGISTER";
58     parameter SFTEN = "DISABLED";
59     parameter RESET = "SYNC";
60 endmodule

```

Ln 1, Col 1 Spaces: 4 UTF-8 LF Plain Text Windsurf: (...) Colorize: 42 variables Colorize Colorize

Figure 25. Verilog file sample – part 2

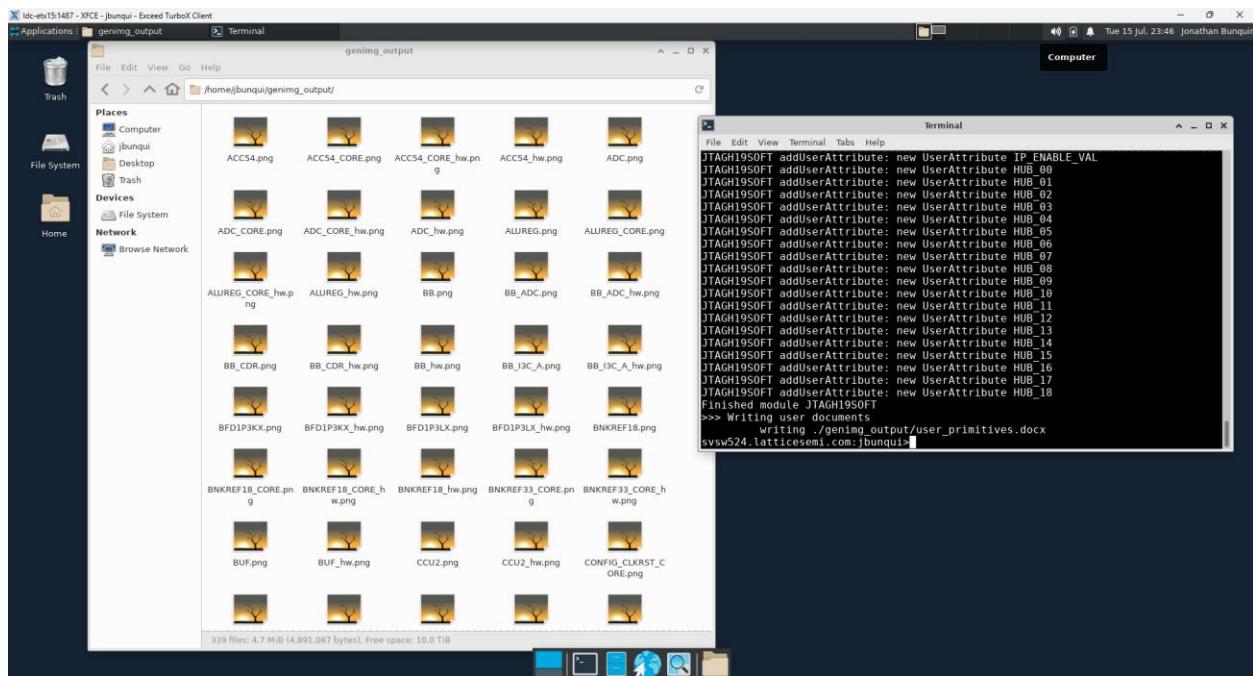


Figure 26. Output folder of Generated Images

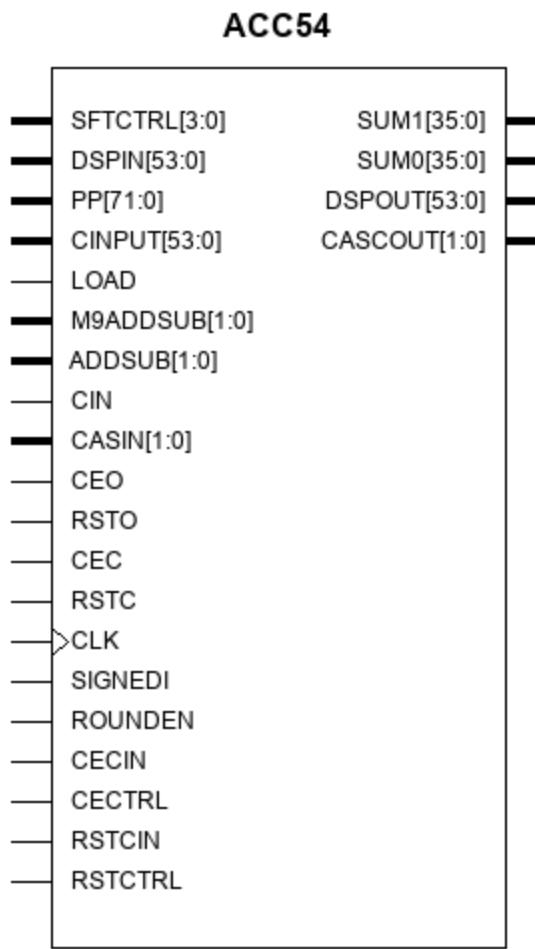


Figure 27. Sample Output of Generated Image

After generating the necessary images using the Python scripts, I imported them into Adobe FrameMaker, where I adjusted their sizes to match the required layout and formatting preferences. This FrameMaker file serves as the source content for the Online Help documentation of the Alphanumeric Primitives List in the FPGA Libraries.

Once the images were properly integrated and formatted within FrameMaker, we used WebWorks ePublisher to convert and publish the content to a web-based format. This tool allowed us to seamlessly display the FrameMaker content, including the newly added images, in the Online Help system.

Figures 28 to 30 illustrate the process—from importing the images into Adobe FrameMaker to publishing and viewing them on the web.

: Alphanumeric Primitives List

Architectures supported:

- ▶ LFCPNX
- ▶ LFD2NX
- ▶ **LFD2NX-35**
- ▶ **LFD2NX-65**
- ▶ LFMX05
- ▶ LFMX05-35T
- ▶ LFMX05-65T
- ▶ LIFCL
- ▶ UT24C
- ▶ UT24CP

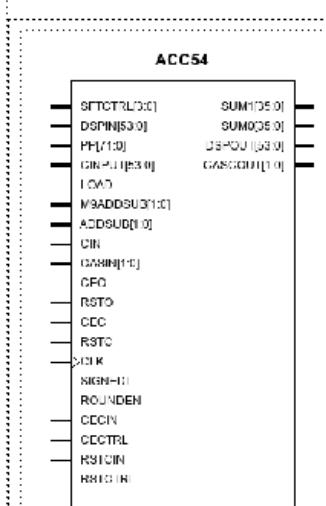


Table 1: Input Ports

Name	Range	Description
SFTCTRL	3:0	Arithmetical right shift 0 - 15
DSPIN	53:0	Previous ACC54 data in
PP	71:0	Input form 4 groups of REG 18
CINPUT	53:0	Input form 4 groups of REG 18

Flow: A Heading1

◀ ◀ 8

Figure 28. Importing to Adobe FrameMaker

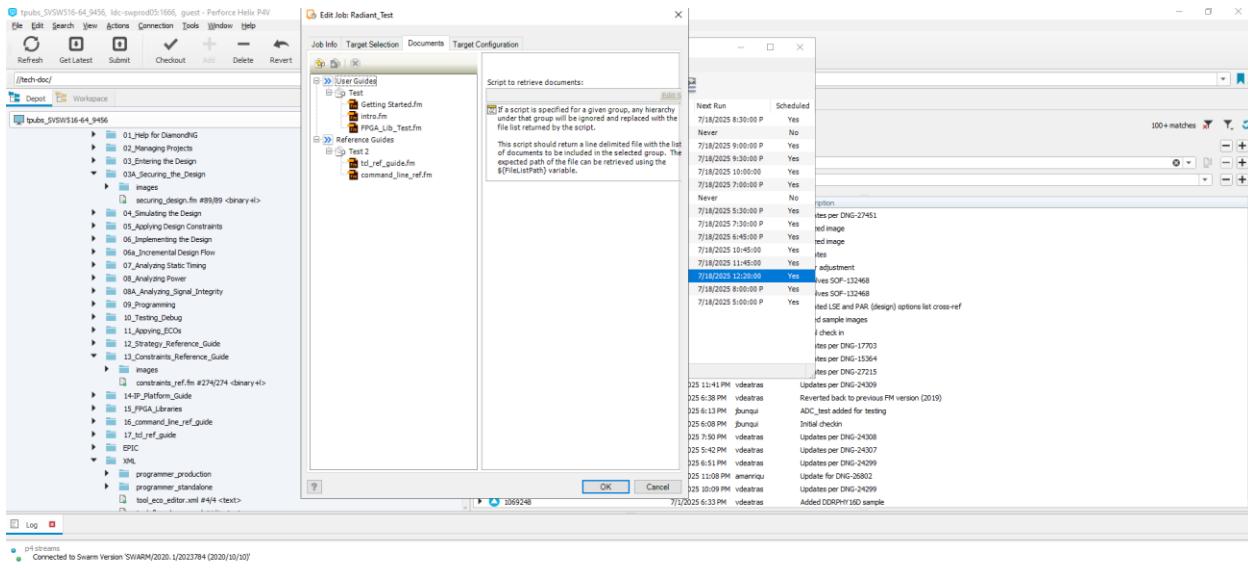


Figure 29. Webworks showing contents

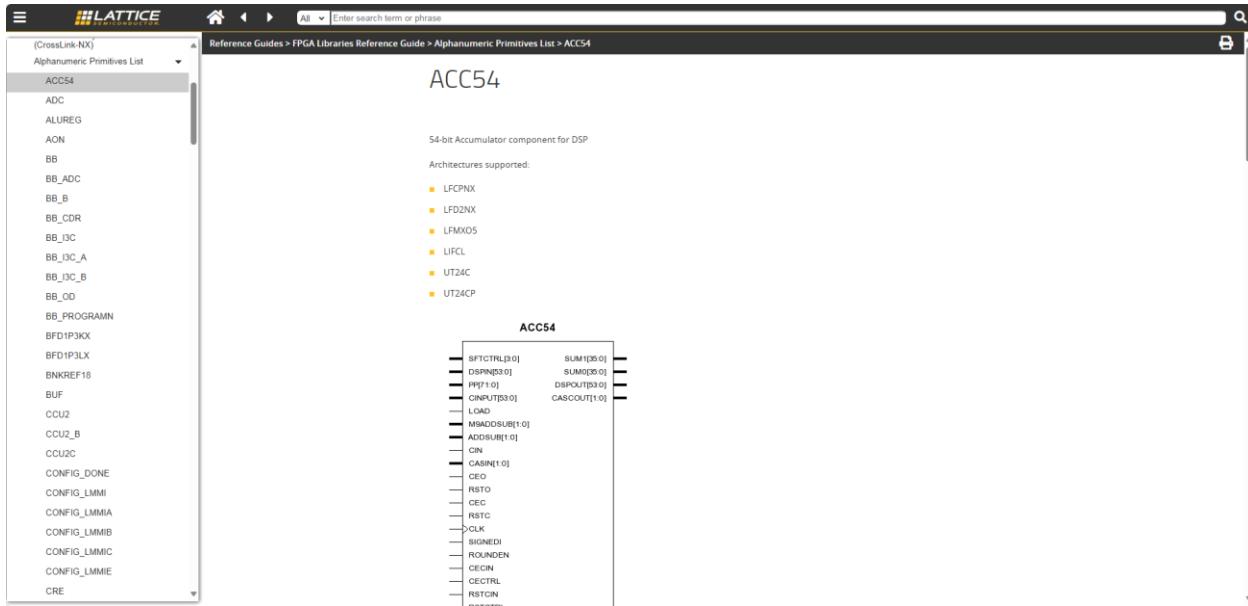


Figure 30. Generated Image Showing in Online Help

Enhancing Radiant Online Help HTML

Another project I worked on involved improving the Radiant Online Help HTML using WebWorks ePublisher Designer. The goal of this task was to add a horizontal scroll bar for text that is too long to fit in its container. Currently, when the text is too long, it either wraps to the

next line or gets compressed, which makes it harder to read. The team wanted to avoid this issue, so they asked me to develop a solution that allows users to scroll sideways instead of wrapping the text. I fixed this by modifying the CSS file used for this page.

Figures 31 and 32 show the difference between before and after the horizontal scroll bar was added.

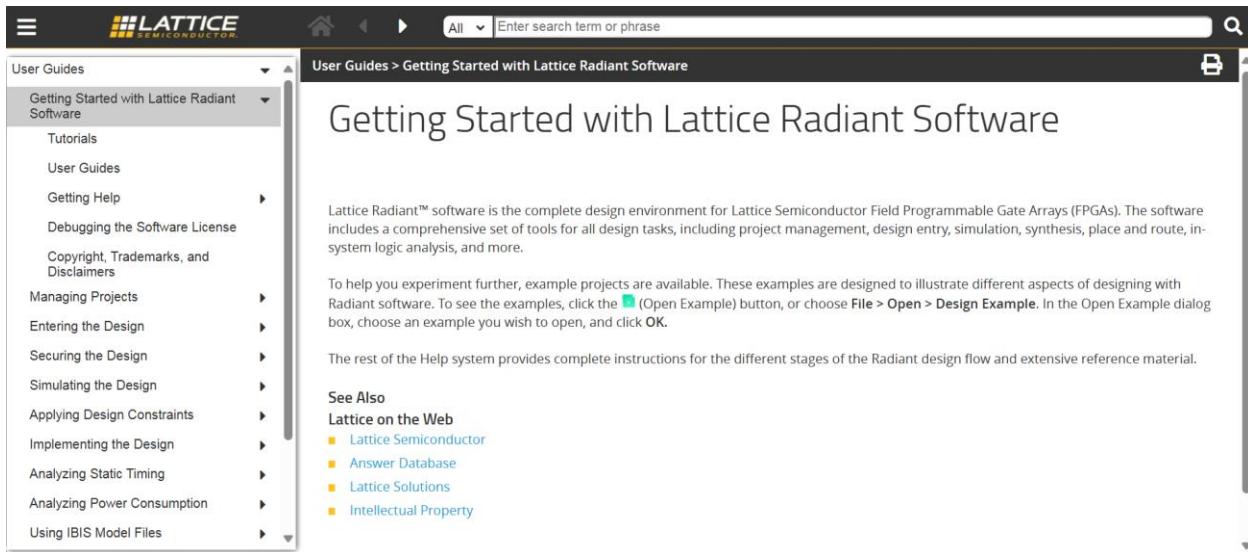


Figure 31. Before Adding the Horizontal Scroll Bar

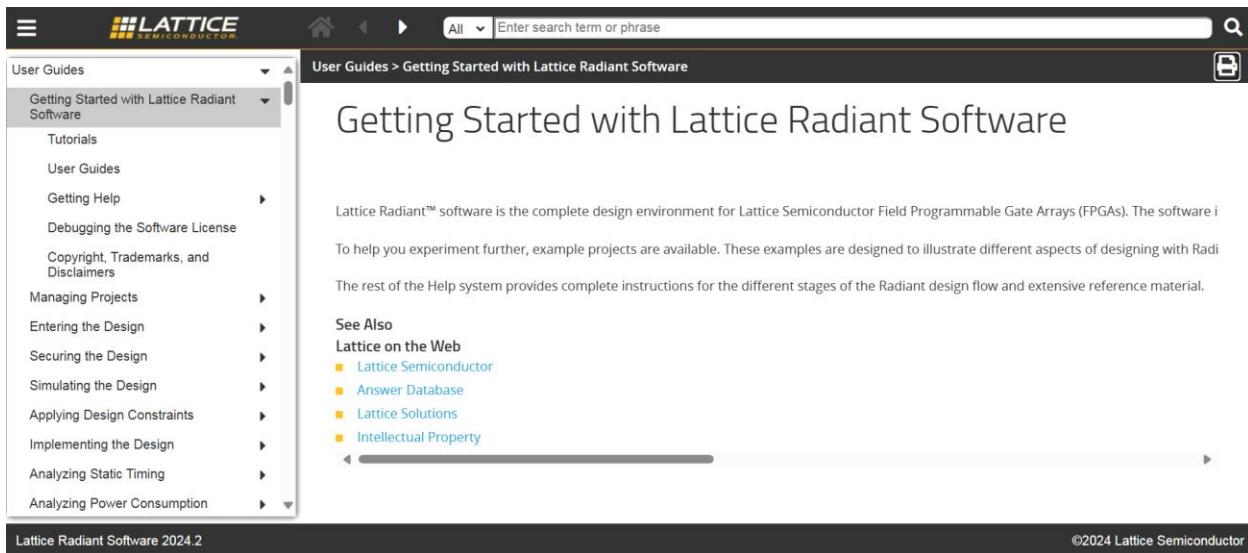


Figure 32. After Adding the Horizontal Scroll Bar

Another task I was assigned to was fixing an issue with the dropdown menu in the Radiant Online Help. The problem was that when a user clicked on a dropdown section, it would only expand—but it wouldn't collapse again unless the user clicked the small arrow icon next to the section name. This made the interaction less intuitive and harder to use. To solve this, I updated the JavaScript code that controls the dropdown behavior. After the fix, users can now both expand and collapse the dropdown by simply clicking on the section itself.

Figures 33 and 34 show the results after the issue was resolved.

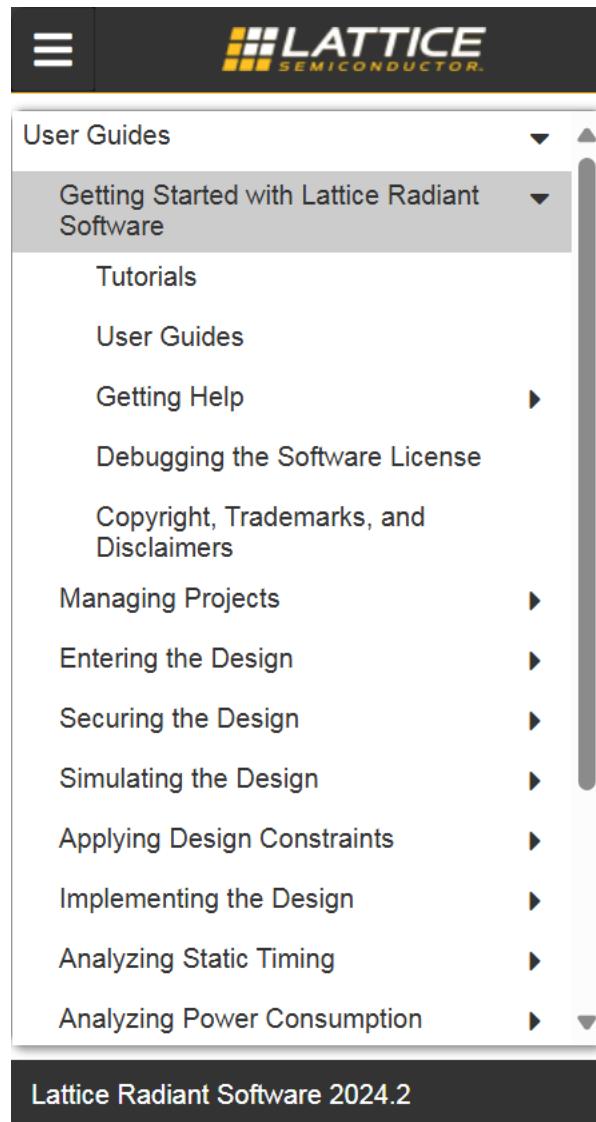


Figure 33. Dropdown Expand and Collapse Issue Fixed – part 1



Figure 34. Dropdown Expand and Collapse Issue Fixed – part 2

In conclusion, these three main projects represent the core of my contributions during my practicum. Each addressed specific challenges faced by the team and provided practical, long-term solutions. The first project replaced a cumbersome Excel-based task tracker with a more structured and efficient system, improving task management and data accuracy. The second project tackled the issue of inconsistent image formats in the Online Help documentation, ensuring a more standardized and professional presentation. The third project improved the layout and usability of the Radiant Online Help for Lattice Semiconductor Philippines by fixing

dropdown behavior and enabling horizontal scrolling for long text. These enhancements made the help system easier to navigate and more accessible for users.

Overall, these initiatives significantly benefited the team by enhancing workflow efficiency, improving data consistency, and reducing manual effort.

Synthesis of the Practicum Engagement

Learnings

I learned a lot during the practicum engagement at Lattice Semiconductor Philippines. First, I got better at talking and working with my teammates, which helped me improve my people skills (soft skills). I also realized that even if you already know how to do something, there's always more to learn. I picked up new tools like WebWorks ePublisher, Perforce, Linux and Unix systems, Jira, and Adobe Framemaker.

I also saw how fast things move in the corporate world. When you're given a task, you're expected to do it right away. I try to, but sometimes I get delayed because it takes me a bit longer to learn new things. My dad once told me not to wait for instructions from my boss or my manager—he said I should take initiative and ask what I can do, even if no one told me yet. That advice really helped. It showed my manager that I wanted to help and be part of the team.

Realizations

I've come to realize that I tend to work more slowly, especially in software development. When there are changes in the system, I often panic because I know the requests can be quite challenging. This makes me question whether I'm truly suited for a career in software development—at least, not unless I continue to improve my skills.

School projects are very different from practicum experiences. In school, you usually work with a group, and your teammates can help you with your tasks. Deadlines are also more flexible. But during practicum—and even more so in the real world—you're often on your own, and deadlines come much faster.

For example, it took me several weeks to develop the dashboard tracker that's currently being used by my team in the company. That made me wonder: what if one day my boss gives me a tight deadline? Would I be able to deliver?

Additionally, there was one thing I didn't like, though during the practicum engagement. It took a long time to get access to the tools and accounts I needed, and that made me feel stressed since I had less time to finish my work. This is the challenging part of my practicum since I only have 324 hours to do the tasks that were given to me. You know that feeling when you want to do something, but you just can't. Also, it is not your fault that you still don't have the access or accounts to some of the tools. So you just have to wait and wait until it becomes available.

Conclusion

In conclusion, because of these challenges and experiences I felt during the practicum, I feel that software development in a corporate setting might not be the right fit for me for now. However, I'm not giving up. I still want to pursue software development, continue building my skills, and create my own projects—just not necessarily in a corporate environment. Still, I did my best in this wonderful experience, and this practicum taught me so much—about both work and myself.

Appendices

Appendix A

Competency-Based Curriculum Vitae (CV)

JONATHAN RUSSELL BUNQUIN

+63 9672340770

NATBUNQS29@GMAIL.COM

/IN/JONATHAN-BUNQUIN

SAN PEDRO, LAGUNA

EDUCATION

- August 2021 - Present **Bachelor of Science in Computer Science**
Mapua Malayan Colleges Laguna
Cabuyao, Laguna

RELEVANT COURSES IN EDUCATION

- | | |
|----------------------------------|----------------------------|
| • Data analytics | • Automata Language Theory |
| • Data structures and algorithms | • Web Development |
| • Software Engineering | • Machine Learning |

AWARDS

- | | |
|---|---|
| • A.Y. 2021-2022 1 st Term Dean's Lister | • A.Y. 2022-2023 3 rd Term Dean's Lister |
| • A.Y. 2021-2022 1 st Term Dean's Lister | • A.Y. 2023-2024 1 st Term Dean's Lister |
| • A.Y. 2022-2023 1 st Term Dean's Lister | • A.Y. 2023-2024 2 nd Term Dean's Lister |
| • A.Y. 2022-2023 2 nd Term Dean's Lister | • A.Y. 2023-2024 3 rd Term Dean's Lister |

SKILLS

- | | |
|---|-------------------------------|
| • Python, C#, JavaScript, HTML, CSS,
Bootstrap | • Plotly, Matplotlib, Seaborn |
| • Microsoft Excel | • Tableau, Power BI |
| • SQL, MySQL, SQLite | • Weka |
| | • Unity, Django, Flask |

PROJECTS

- **Lattice Radiant Online Help Dashboard Tracker**
 - July 2025
 - Designed and implemented a task-tracking dashboard for the Software Technical Publication team under the Research and Development department during my internship at Lattice Semiconductor Philippines.
 - The dashboard enables users to assign, update, and remove tasks, with customizable fields including document name, section, subsection, comments, and assigned writer.
 - Built the dashboard using Python and the Django framework, with MySQL as the backend database. Integrated Chart.js to visualize task progress and workload distribution across team members, enhancing project transparency and monitoring.
- **PREDICTING CA19-9 LEVELS USING MACHINE LEARNING**
 - December 2024 – Present
 - A web application for visualizing and predicting CA19-9 levels.

- CA19-9 is a biomarker commonly used in cancer diagnosis, particularly for pancreatic cancer. The application utilizes ensemble learning for predictions
 - The front end is built using HTML, CSS, Bootstrap, and JavaScript, while the backend is developed with Django and Django REST Framework. Plotly is used for data visualization
- **TB Burden Country Dataset Dashboard**
 - February 2025
 - Developed an analytics dashboard to analyze TB-related deaths, TB-HIV co-infections, and incidence rates, identifying regions with the highest burden helping users recognize areas requiring urgent intervention and understand contributing factors.
 - Created a global heat map visualizing country population to examine potential correlations between population size, TB incidence, deaths, and prevalence.
- **Balaji Fast Food Dataset Analytical Dashboard**
 - February 2025
 - Developed an analytics dashboard to determine the optimal time for sales helping the fast-food business anticipate peak customer traffic.
 - Conducted time series analysis of sales trends, providing insights into the highest sales periods and their underlying factors.
 - Identified the best-selling and least popular menu items, enabling data-driven decisions on promotions and inventory management.
- **Mapua MCL's Blue and Silver Bookshop Dashboard**
 - May 2024 – July 2024
 - Developed an interactive analytics dashboard to display key performance indicator (KPI) reports for the bookstore.
 - Assisted bookstore staff in tracking sales trends and inventory performance.
 - Designed data visualizations that enhanced user reporting and analytical insights.
- **MMCL Online Bookshop System**
 - December 2023 – June 2024
 - The project is a web application designed for MMCL, allowing students to reserve items online at the Blue and Silver Bookshop.
 - The application uses HTML, CSS, JavaScript and Bootstrap for the frontend, MS SQL for the database, and ASP.NET MVC for the backend. Chart.js is used for data visualization. Project management is handled through GitHub, and the application is hosted on Azure.

Appendix B

Endorsement Letter



10 May 2025

MR. JAY R. ESPIRITU

HR, Talent Acquisition, Lattice Semiconductor Philippines
11F Aeon Center, Alabang-Zapote Road, N Bridgeway,
Muntinlupa, Metro Manila

Dear Mr. Espiritu,

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

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

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

With warm regards,

The handwritten signature of Jonalyn G. Ebron.

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

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

Address : Pulo Diezmo Road, Caluya 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 Form



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

PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

IMPORTANT INFORMATION

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

NAME OF STUDENT	Jonathan Russell D. Bunquin	STUDENT NUMBER	2021150113
COURSE CODE	CS199F	SY/TERM ENROLLED	A.Y. 2024-2025/3T

This is to certify that Jonathan Russell D. Bunquin (name of student-trainee) has been accepted for practicum at LATTICE SEMICONDUCTOR CORPORATION (name and address of establishment) and will be attached to the SW TECHNICAL PUBLICATIONS - R&D department/s for a minimum of, but not limited to 324 hours. Training will commence on May 13/2025 and is expected to end on July 01/25. Attached is the list of requirements.

COMPANY REPRESENTATIVE:	AVE M. MANRIQUEZ	TECHNICAL PUBLICATION MANAGER
Signature over Printed Name		Official Designation
SW TECHNICAL PUBLICATIONS - R&D		ave.manriquez@latticesemi.com/0999-3433605
Department		Email and Contact Number/s

NOTED BY:	<u>Jenny B. SW</u>	5/10/2025
Signature over printed name of Practicum Coordinator		Date

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

THIS FORM IS AVAILABLE AT THE OVPAA.

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



PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

IMPORTANT INFORMATION

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

NAME OF STUDENT	Jonathan Russell D. Bunquin	STUDENT NUMBER	2021150113
COURSE CODE	CS199F	SY/TERM ENROLLED	A.Y. 2024-2025/3T

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COMPANY REPRESENTATIVE:	AVE M. MANRIQUEZ	TECHNICAL PUBLICATION MANAGER
Signature over Printed Name		Official Designation
SW TECHNICAL PUBLICATIONS - R&D		ave.manriquez@latticesemi.com/0999-3433605
Department		Email and Contact Number/s

NOTED BY:	<u>Jenny B. SW</u>	5/10/2025
Signature over printed name of Practicum Coordinator		Date

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

THIS FORM IS AVAILABLE AT THE OVPAA.

Appendix D

Liability Waiver



MAPUA
MALAYAN COLLEGES
LAGUNA

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

STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

IMPORTANT INFORMATION

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

I, Jonathan Russell D. Burquin, and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL"), do hereby voluntarily undergo on-the-job training at Lattice Semiconductor Corporation, hereinafter referred to as the "Host Company", located at 11F Aeon Center, Northgate, Alabang, Muntinlupa, under the following terms and conditions:

- a. That the practicum training will commence on May 13, 2016 and ends on July 9, 2016 and will have to complete a minimum of 324 hours required for the on-the-job training;
- b. That I shall observe proper decorum and act professionally at all times and abide by the Company's rules and regulations and comply with those imposed for the training program, otherwise, I shall be excluded from further participation;
- c. That in the course of my training program, I may have access to information which may be of confidential in nature and proprietary to the Company, for which I may be required to execute a confidentiality and non-disclosure agreement as a prerequisite to my participation in the training program;
- d. That the time I will spend on the training program in the completion of my on-the-job training requirements will not and should not be interpreted or construed as working hours and should be regarded as non-compensable. Provided that, the Company may, as a unilateral act of liberality or generosity on their part, provide me with meal, travel, transportation allowances, accommodations, etc.;
- e. That I fully understand that notwithstanding the allowances enumerated in the preceding section which I may receive, there exists no labor-management and/or employer/employee relationship between me and the Company where I will undergo my training;
- f. That I shall exercise due care and diligence in the tasks assigned to me and personally be made answerable for any and all liabilities for damage to property or injury to third person, which may be occasioned by my intentional or negligent acts during the course of my on-the-job training;
- g. That I shall likewise hold the Host Company and MCL free and harmless from any and all liability and responsibility for any sickness or injury to myself and third parties and damage to property which I may sustain and/or may occur at any time during the training program, including time spent in traveling to and from any and all premises and locations where I may be required to go to as part of my training program;
- h. That the Company reserves the right to discontinue my training on reasonable grounds upon written notice to MCL and myself. Additionally, in the event my training program is discontinued for reasons attributable only to myself, I may be made to reimburse the Host Company for any/all the allowances, stipends, etc., which I may have received from them during and prior to the termination of my training program;
- i. That in addition to my liability under section g and for the pre-termination of my training program provided for under section h hereof, I may be subjected further to disciplinary action in accordance with the school's student manual and/or be a ground for disqualification from graduation;

Signed on this 9 day of May 2016.

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

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



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

TRAINING PLAN

NAME	Jonathan Russell D. Bunquin	COURSE CODE	CS199F				
PROGRAM & STUDENT NO.	BSCS 2021150113	COURSE TITLE	CS PRACTICUM				
STUDENT OUTCOMES CO1. Identify, analyze, and design business process solution to the problem faced by the organization CO2. Apply the different concepts of system analysis and design, software engineering and programming courses in the problem solving process in the organization CO3. Acquire new knowledge and experience while in the organization							
AREAS / PHASES OF TRAINING AND TIME ALLOTMENT 1. Improve Python Scripting for Image Generation of the FPGA User Library Guide - 42 hours 2. Standardizing Diagrams in the User Library Guide and Radiant Online Help - 42 hours 2. Automating Release Notes from Jira - 40 hours 3. Enhancing WebWorks HTML - 100 hours 4. Other tasks and activities to improve the online help (user interface enhancement and incorporate interactive elements). ~100 hours							
EVALUATION GUIDELINES & COURSE OUTCOMES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">DEMONSTRATION OF SOFT SKILLS (40%)</th> <th style="text-align: left;">DEMONSTRATION OF TECHNICAL SKILLS (60%)</th> </tr> </thead> <tbody> <tr> <td> KEY AREAS COMMUNICATION SKILLS (20%) Relate to co-trainees/supervisors terminologies and rules Recite procedures and instructions needed for the tasks Identify and describe safety signs and symbols Ask critical questions related to the tasks Produce well-written regular and incident reports Prepares and presents reports using Information and Communication Technology (ICT) PROFESSIONAL DEPARTMENT (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 </td> <td> KEY AREAS <u>Software development</u> SKILLS (%) 40% <ul style="list-style-type: none"> Delivers bug-free modules on time (20%) Integrates and implements new modules (10%) Applies good UI/UX principles in module development (10%) <u>Technical documentation</u> SKILLS (2%) 20% <ul style="list-style-type: none"> Prepares project scheduling documents (5%) Prepares testing activity documentation (5%) Prepares user manual (5%) Prepares technical documentation (5%) INITIATIVE (+5%) Volunteers to perform tasks beyond routine tasks </td> </tr> </tbody> </table>				DEMONSTRATION OF SOFT SKILLS (40%)	DEMONSTRATION OF TECHNICAL SKILLS (60%)	KEY AREAS COMMUNICATION SKILLS (20%) Relate to co-trainees/supervisors terminologies and rules Recite procedures and instructions needed for the tasks Identify and describe safety signs and symbols Ask critical questions related to the tasks Produce well-written regular and incident reports Prepares and presents reports using Information and Communication Technology (ICT) PROFESSIONAL DEPARTMENT (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	KEY AREAS <u>Software development</u> SKILLS (%) 40% <ul style="list-style-type: none"> Delivers bug-free modules on time (20%) Integrates and implements new modules (10%) Applies good UI/UX principles in module development (10%) <u>Technical documentation</u> SKILLS (2%) 20% <ul style="list-style-type: none"> Prepares project scheduling documents (5%) Prepares testing activity documentation (5%) Prepares user manual (5%) Prepares technical documentation (5%) INITIATIVE (+5%) Volunteers to perform tasks beyond routine tasks
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CONFORME	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY
 May 10, 2015 <small>SIGNATURE OVER PRINTED NAME OF STUDENT / DATE</small>	<small>SIGNATURE OVER PRINTED NAME OF PARENT OR GUARDIAN / DATE</small>	 AVE MANRIQUEZ <small>SIGNATURE OVER PRINTED NAME OF PRACTICUM SUPERVISOR / DATE</small>	 Jonathan R. Bunquin <small>SIGNATURE OVER PRINTED NAME OF PRACTICUM ADVISER / DATE</small>	 Jonathan R. Bunquin <small>SIGNATURE OVER PRINTED NAME OF PROGRAM CHAIR / DATE</small>

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

FORM OVPAA-030D

THIS FORM IS AVAILABLE AT THE OVPAA.

Appendix F

Complete Journal – (May 26 to July 29, 2025)



Malayan Colleges Laguna
A MAMIA SCHOOL

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

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
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DATE	May 26, 2025 to May 30, 2025	AREA ASSIGNMENT	SW Technical Publication
TASK	Setup	SHIFT/TIME	8:00 PM to 5:00 PM

Day 1: Today is my first day at the office. They gave me the account for my access for the tools to be used in the office.

They let me borrow the company's laptop for my daily use at work. Everything is just chill on the first day.

No orientation yet, just read their company guidelines for the newly hired employees.

They also sent a file to read for the tools to be used when I am going to start working with projects.

Day 2: Now is the second day at the office Everything works fine.

There is a coffee station at the pantry, but I don't know how to use it. I made a tour inside the building. I went to the pantry as well.

So, I ended up not drinking coffee or a hot chocolate because of my timidity to ask.

I also have read some manuals, arranged my accounts, set up my BYOD device to access Microsoft Teams, Outlook, and others.

My supervisor has now informed me that I will start my training tomorrow (May 28, 2025). So, I should be ready.

Day 3: Third day. This is my first time to learn about the tools which are being used in this company.

Before proceeding to the tools, they gave me first an overview about the organization chart of the team.

Then we proceed to learn about Radiant and Diamond Help software and Online help.

I also learn about the ETX Server for generating primitive diagrams.

They also have me an introduction about Perforce (checking out and submitting updates),

WebWorks AutoMap (connection with Online help), and WebWorks ePublisher (modifying online help elements).

Day 4: I am still waiting for my access to the tools for the organization. I had learned how to use perforce helix core by watching the learning materials.

On the other hand, we had a seminar about the benefits of Pag-IBIG and PhilHealth on this day.

Day 5: We made a meeting with HR about my benefits for being an OJT in their company.

Also, they start arranging my files for TIN account and BPI account. They instructed me to create an report about the milestones I gained since my first day.

Also, they gave me an assignment to evaluate their website and bring some recommendations for them.



TRAINEE'S SIGNATURE



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DATE	June 2, 2025 to June 4, 2025	AREA ASSIGNMENT	SW Technical Publication
TASK	Evaluate Radian Software	SHIFT/TIME	8:00 AM to 5:00 PM

Day 6: They have given me a task about evaluating a software that is being use in the company.

The software that I evaluated is the Radian Software.

I made my own evaluation for the software, and create my PowerPoint and to present a report to them.

Also, the IT administrator gave me an access and license to some tools within the company.

Day 7: I continued to modify and polish my report for tomorrow.

I did double check every single word I said to the evaluation report. I practice for my presentation tomorrow,

and made sure that I know everything I will say and recommend to them based on my observations.

Day 8: I made a good job presentation today.

I have discussed to them the concerns regarding the Radian Software Online Help.

They gave me a new task and I am going to present to them next week.

Right now, I am assessing my new task for today: evaluate the radiant software online help

with comparison to other competitors like Xilinx and Intel.

TRAINER'S SIGNATURE



Malayan Colleges Laguna
A MAPUA SCHOOL

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DATE	June 9, 2025 to June 13, 2025	AREA ASSIGNMENT	SW Technical Publication
TASK	Tools installation	SHIFT/TIME	8:00 AM to 5:00 PM

Day 9: We tried installing another tool called Adobe Framemaker 2019, but it is not yet working.
We are looking for another solution for this.
Additionally, I made my evaluation on another competitors of lattice semiconductor, called Xilinx and Intel. I made a preparation for my report tomorrow.
Day 10: We tried installing the Adobe Framemaker again. Our IT assisted me again, but he cannot make it done.
The installer is still not working. I inform one of my team, and she will tell it to my supervisor.
Additionally, my report was moved tomorrow. So, I haven't done my report today, but I still prepared my powerpoint presentation.
Day 11: So today is the presentation. I did present it to them, and I made the presentation wonderful.
They congratulated me for the successful presentation, and proceeded to instruct me with new tasks such as learning the tools how to operate.
Day 12: Today, the IT administrator have given me the access for one of the platform we are using, Jira.
My supervisor advised me to provide her my credentials once I received my Unix account.
So I did what she had asked me. Now, my account for Jira is being processed, and I would be able to use it once it is finished.
But today, I am learning how to use Adobe Framemaker, and Web works to design a web application.



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DAILY JOURNAL

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DATE	June 16 to June 20	AREA ASSIGNMENT	Software Publication Team
TASK	Dashboard Tracker	SHIFT/TIME	8:00 AM to 5:00 PM

Day 13: I was given a task for my dashboard tracker project for our team.

They discussed me the contents in the dashboard. So, I made my plan for the development of the project.

I will be using Django framework for this dashboard. In case there would be a graphs or charts for this dashboard, I will be using plotly.

Day 14: Today, I started developing my dashboard project for the team using Django framework.

The company's laptop is strict to download and install in the laptop

So, this is challenging for me. When I want to install python in the computer, I need to contact my IT for the credentials of the admin.

The worse case is if the IT is not around, no one can help you to install those applications since they are the ones who have the access for admin

So, in this case, while I am facing in downloading my tools, I brought my personal laptop with me to the company.

And by that, I started developing a program while waiting for the company's laptop to be assembled.

Day 15: The following day, Wednesday, I continued developing my dashboard project using my personal laptop.

I will try to reach out our IT again and raise my concerns about installing tools.

The python was not working to projects that came from github, even if the python is installed to my laptop.

This is a bit hustle for me. Anyway, I have my personal laptop here. I can develop the program while they are fixing the company's laptop problems.

Day 16: We installed Adobe Framemaker 2022 today since we have been trying to install Adobe Framemaker 2019 but ended up failed.

Maybe because of the computer patch or the installer is no longer compatible with the computers today.

So, we tried modifying elements using Adobe Framemaker 2022 with the Framemaker 2019 file.

The contents are not displaying as intended, but we continue to use it for now. If we are not going to resolve it, we will try to look for another way



TRAINEE'S SIGNATURE



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DATE	June 23 to June 27	AREA ASSIGNMENT	Web Contents
TASK	Perforce and Dashboard	SHIFT/TIME	8:00 AM to 5:00 PM

Day 17: Today, I have continued to develop the dashboard for the lattice radiant software publication team.

While I am waiting for my access for Unix and Perforce, I am continuing my software development for the dashboard using Django.

I cannot yet use my Adobe Framemaker and Webworks since my access to the accounts is not yet available.

Day 18: After a couple of emails with the helpdesk, we raised it to the EDA so that we can have an assistance for the account accessibility.

Then I work with my software development again for the dashboard tracker. I added features such as search bar, creation of forms, and adjustments of the HTML.

Day 19: We started our first training using the Perforce Helix Core and with the combination of Adobe Framemaker

We started our training because we have installed Adobe Framemaker 2022 in my laptop. We install the version 2022 because the version 2019 is no longer working on new computers.

Day 20: Yesterday, we did a training for Perforce. But today, we started our training with the Webworks.

I learned about how to change the contents, adjust the sizes, and modify images. This is my first time doing it, so it's a little bit challenging to me.

But Webworks is just easy and neat to use. You can design your own webpage by just putting value to the software application.

Additionally, my one access for the software called Exceed Turbo X is already working.

Now, I can use it for accessing the Linux Server so that I can generate images using Python Script.

Day 21: This is my final training for the week. We continue our training for Perforce Helix Core, Framemaker, and Webworks.

I learned that Perforce is the versioning tool where you can make a build like check in and check out.

Framemaker is where you will edit the contents like text and images of the web page.

On the other hand, Webworks is where you will design the structure of the webpage. And we made a good training for these three.

TRAINEE'S SIGNATURE



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DATE	June 30 to July 4, 2025	AREA ASSIGNMENT	SW Technical Publication
TASK	Adobe Framemaker and Dashboard	SHIFT/TIME	8:00 am to 5:00 pm

Day 22: Today, I am continuing my task to solve the problem about the blurriness of the images in the Radiant Online Help.

So I did my part. First is I check Adobe Framemaker, if the imported files are blurry - which it is.

Second, I check if the generated images are blurry - which is not. Then, I check in the Radiant Help if the images which are blurred are also blurred in Framemaker or the generated files.

Day 23: Today, I made a report to my supervisor about my observations in the Radiant Online Help.

I discussed with her about my concerns pertaining to the blurred images, inconsistent sizes and borders and fonts, compacted images, and other concerns

Other than this, I showed her my progress in the Radiant Help Dashboard. I discussed with her the features of the dashboard and its functionalities.

Day 24: I continue to develop my dashboard for the company. Then We had a meeting to discuss about what solution I can offer for my team regarding the blurred images

I told them about the cause of the inconsistent sizes and formats in the Adobe Framemaker. I showed them some proofs by presenting them my observations.

Day 25: I made an email with another person from our team, he is currently at the United States of America.

He helped me about how to generate the images using Python Scripting. So, we kept in touch to have me guided by doing the generated images.



TRNEE'S SIGNATURE



REVISION NO.: 00
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DAILY JOURNAL

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DATE	July 7 to July 11, 2025	AREA ASSIGNMENT	SW Technical Publication
TASK	Adobe Framemaker and Dashboard	SHIFT/TIME	8:00 am to 5:00 pm

Day 26: I still continue to develop the system about the dashboard that will be used by the team

I keep on developing the features needed for the system because I needed to finish this as early as possible; maybe this week.

Day 27: Today, my dashboard is almost done. And as a polish the system, I also do my another task for the OJT, which is the generating of Images using python script

I started inserting the generated images to the framemaker. And as I insert the files, I have observed that there are inconsistencies in the frames of the images.

Day 28: I am done with my dashboard today. So, I presented them the dashboard, and I gained their feedback.

They request some additional features, and a little bit of changes in the system.

Some changes are hard, but some are also not so hard. This is just a bit challenging because I want to finish my dashboard this week so I can start the other tasks.

Day 29: After I gained the feedback from my supervisor yesterday, today I presented it with the whole team.

They saw the dashboard and gave their feedback. They requested new features that will help them in using the online help dashboard tracker.

Day 30: Today, I worked on with the newly added features they have discussed with me yesterday.

I am continuing to work with my dashboard, and I planned to finish it this week so I can now start with my other projects in the company.



TRAINEE'S SIGNATURE



Malayan Colleges Laguna
A SEAPTA SCHOOL

REVISION NO.: 00
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DATE	July 14 to July 18 2025	AREA ASSIGNMENT	SW Technical Publication
TASK	Dashboard, Framemaker, and Jira	SHIFT/TIME	8:00 am to 5:00 pm

Day 31: Today, I polished the Dashboard Tracker I have been working on. And now, it is 100% functioning.

What I mean by 100% functioning is when they make a changes using the interface, it is now reflected in the database.

But I just found out that there are some issues with displaying the contents.

Sometimes it shows that the template is not found even if it is there.

It is just weird that it is happening, while the data is being reflected in the database when they make a change

Day 32: Because I have already finished my project for the Dashboard Tracker system, I keep doing the project I am working on Adobe Framemaker.

The generated images are already there because I made a contact with the software developer of our team, and he assisted me with it.

So, after generating the images, I imported it into the Adobe Framemaker file. There are just some files that are missing.

Day 33: While continuing in working with the Adobe Framemaker, I started raising my concern with my manager about the Jira Release notes.

I said to her that we need the updates for the Jira Release tab in the website, because without that,

I cannot proceed in developing the Python Script to automate the generating of release notes.

So, she followed up one of the employee in the company that is assigned to the work of Jira

Day 34: Yesterday, I made an email with the software developer in our team, but I still got no response coming from him.

So, I tried to solve the issues I am dealing with towards the Generating of images and Adobe Framemaker.

I didn't know if what I am doing is the right approach to the problem, but I did send an email to him, and currently waiting for his feedback.

Day 35: Now, one of the team that is having me checked for the progress of my practicum checked my progress once again.

I told her my progress and that the dashboard tracker is already complete.

I will just enhance it so that it will be much more appealing to the design of the user.

But in terms of functionality, it is now working one hundred percent.

TRINNEE'S SIGNATURE



Malayan Colleges Laguna
A MAMPAI MEMBER

REVISION NO.: 00
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DAILY JOURNAL

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DATE	July 21 to July 25, 2025	AREA ASSIGNMENT	SW Technical Publication
TASK	Dashboard Modification	SHIFT/TIME	8:00 AM to 5:00 PM

Day 36: Since I am still waiting for the update for the Jira and the Adobe Framemaker, I modified my dashboard design so that some unnecessary elements are not displayed

I added some features like color of the tasks in the table, and downloadable excel file if the user wanted to see what it looks like in an excel file.

Day 37: Today we had a company visit with my Adviser Michael James Gnilo through MS Teams since the weather today is still rainy.

So for the convenience of both of us, we did it in this method. So my adviser talked with my manager, and afterwards my adviser talked with me and told me the feedback of my manager towards me.

The rest of the day, I continued in arranging the design of the dashboard.

Day 38: My manager talked to me about another project we have discussed about my training plan.

This is project is about the enhancement of feature and fixing issue they are facing in the Radiant Online Help.

They told me about the issue of the dropdown that it is not closing when clicked on the section name, but it can close when the arrow beside the name is clicked. So I fixed this using JavaScript, and it worked

Day 39: Now, I had a meeting with the one member of our team to check my progress for my projects.

I explained to her all about the accomplishments I made.. So I made the four projects done, those projects are

Dashboard tracker, Radiant Online Help Generated Images, Cleanup inconsistencies in Adobe Framemaker

and enhancement of the Radiant Online Help HTML. So now, I am just waiting for the update about the Jira so that I can start my project there.

Day 40: Today we had a photo op for the interns for National Intern Day on July 31.

So we wear our best fashion we have to look good in the pictures. I didn't know that there was a National Intern Day actually.

And I am glad that I became a part of this. For the Jira project,

we had a discussion that we will not pursue for this project because we don't have enough time yet to proceed with the project.



TRAINEE'S SIGNATURE



Malayan Colleges Laguna
A M A P I A S C H O O L

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DATE	July 28 to July 29, 2025	AREA ASSIGNMENT	SW Technical Publication
TASK	No task left	SHIFT/TIME	8:00 AM to 5:00 PM

Day 41: Before my last day in the company, I have finished all of my tasks for the team.

I am happy that I have contributed to this amazing team. At first I thought that they would be so strict about me.

But it turned out to be the opposite. They are patient with me, especially to my progress at work.

Before I entered into the company, I said to myself that I should give all my best to contribute to the team because they trusted me.

They already set an expectations about me during our initial interview. So I gave all the best that I can.

Day 42: Oh how time flies so fast. Today is my last day in the Lattice Semiconductor Philippines.

It still feels like it was just yesterday where they first interview me for the internship at Lattice Semiconductor.

I was saddened and happy at the same time for all the memories I made in this company,

and all the learnings and realizations I've observed in this company.

They are so kind and loving. They care for you. They are concerned about you. They will guide you in every possible way.

Before, I thought that when it comes to a corporate world, there is no such thing as family-like attitude.

But Lattice Semiconductor Philippines proved me wrong. These people made me feel so welcome since the very first day of my Practicum.

It's hard to let go when you surround yourself with these kinds of people.

Thanks for everything, my lattice team. God bless you all!



TRAINEE'S SIGNATURE

Appendix G

Daily Time Record*



MAPUA
MALAYAN COLLEGE
TAGUIG

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

DAILY TIME RECORD*

NAME OF STUDENT		Jonathan Russell D. Bunquin			NAME OF HOST COMPANY/DEPARTMENT ASSIGNED TO		Lattice Semiconductor Philippines		
MONTH		May			MONTH		June		
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1					1				
2					2	8:00 AM	5:00 PM	8	Am m
3					3	8:00 AM	5:00 PM	8	Am m
4					4	8:00 AM	5:00 PM	8	Am m
5					5				
6					6				
7					7				
8					8				
9					9	8:00 AM	5:00 PM	8	Am m
10					10	8:00 AM	5:00 PM	8	Am m
11					11	8:00 AM	2:00 PM	5	Am m
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20					20				
21					21				
22					22				
23					23	8:00 AM	5:00 PM	8	Am m
24					24	8:00 AM	5:00 PM	8	Am m
25					25	8:00 AM	5:00 PM	8	Am m
26	8:00 AM	5:00 PM	8	Am m	26	8:00 AM	5:00 PM	8	Am m
27	8:00 AM	5:00 PM	8	Am m	27	8:00 AM	5:00 PM	8	Am m
28	8:00 AM	5:00 PM	8	Am m	28				
29	8:00 AM	5:00 PM	8	Am m	29				
30	8:00 AM	5:00 PM	8	Am m	30	8:00 AM	5:00 PM	8	Am m
31					31				

VERIFIED BY	<i>Ave Manmuel</i>	JULY 25, 2015
Signature over printed name of Practicum Supervisor		
Date		

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

FORM OVPAA 030H

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

PRINTED NAME OF STUDENT

THIS FORM IS AVAILABLE AT THE OVPAA.



DAILY TIME RECORD*

REVISION NO. **00**
REVISION DATE **Mar 15 2014**

NAME OF STUDENT		Jonathan Russell D. Bunquin			NAME OF HOST COMPANY/DEPARTMENT ASSIGNED TO		Lattice Semiconductor Philippines		
MONTH		JULY			MONTH				
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1	8:00 AM	5:00 PM	8	Amm	1				
2	8:00 AM	5:00 PM	8	Amm	2				
3	8:00 AM	5:00 PM	8	Amm	3				
4					4				
5					5				
6					6				
7	8:00 AM	5:00 PM	8	Amm	7				
8	8:00 AM	5:00 PM	8	Amm	8				
9	8:00 AM	5:00 PM	8	Amm	9				
10	8:00 AM	1:00 PM	4	Amm	10				
11	8:00 AM	5:00 PM	8	Amm	11				
12					12				
13					13				
14	8:00 AM	5:00 PM	8	Amm	14				
15	8:00 AM	5:00 PM	8	Amm	15				
16	8:00 AM	5:00 PM	8	Amm	16				
17	8:00 AM	5:00 PM	8	Amm	17				
18	8:00 AM	5:00 PM	8	Amm	18				
19					19				
20					20				
21	8:00 AM	5:00 PM	8	Amm	21				
22	8:00 AM	5:00 PM	8	Amm	22				
23	8:00 AM	5:00 PM	8	Amm	23				
24	8:00 AM	5:00 PM	8	Amm	24				
25	8:00 AM	5:00 PM	8	Amm	25				
26					26				
27					27				
28	8:00 AM	5:00 PM	8	Amm	28				
29	8:00 AM	12:00 PM	3	Amm	29				
30					30				
31					31				

VERIFIED BY

[Signature]
AVE MANIBOG

Signature over printed name of Practicum Supervisor

JULY 15, 2014
Date

* To be validated once a week by the Practicum Adviser/ Coordinator

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FORM OVPAA 030H

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

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