

Workterm Report: Ericsson Canada Inc

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1 Executive Summary

1.1 Description

This executive summary is an overview of your report. Share with your reader your overall experience, key learnings, and most meaningful reflections. Narrow in on what is most important for the reader to understand your experience.

1.2 Content

Being a co-op student at Ericsson was a true eye-opening experience for me. It was a valuable opportunity for me to dig deep into the software development process.

2 Intro to self and the workplace

2.1 Description

Tell the reader about you and your work. Include relevant features of yourself, including your learning objectives for this internship, if your background and prior experience had an impact, etc, and include relevant features of your work (role title & supervisor title, how your unit fits within the organization, location of the internship (e.g. local or international), describe your role and key activities as if to someone unfamiliar with this field, etc).

2.2 Content

2.2.1 About me

I am currently a third year Computer Science student at Concordia. My focus area in the field is Software Systems. With the nature of my study, I am eager to learn about Software Development process in depth, from starting point to shipping final product. Before the internship, mostly I was doing personal projects on my own and sometimes in team. I also enjoy participating in Hackathons just because it is fun and I have a chance to meet like-minded people.

2.2.2 About Theia team at Ericsson

Ericsson is a multinational networking company and is also a major leader in the domain of telecommunications technology, headquartered in Stockholm. Theia team fits in the organization as a software team mainly responsible for maintaining and developing project Eclipse Theia (<https://theia-ide.org>) which is a framework to develop Cloud and Desktop IDE (Integrated Development Environment). Along with the main repository (code base), the team also works on a variety of support tools.

- Main repository: <https://github.com/eclipse-theia/theia>
- <https://github.com/theia-ide>
- <https://github.com/eclipse-theia>

The project is open-source, hence the code base is public and available on GitHub. With the nature of open-source project, contribution comes from anywhere and anyone. Theia team at Ericsson is only one of the teams contributing to the project, along side with many other companies such as Typefox, SAP, RedHat, Huawei, etc.

With the current COVID-19 pandemic and Canada regulations, all the activities in the internship is done **remotely (work from home)**

2.2.3 About my role in Theia team

My role as a Coop Software Developer is to develop, enhance features in the framework, and participating in code review for both team's members and community contributors. The team is very flexible on the tasks I can work with. I am allowed to work on issues that I find interesting.

3 Career reflection

3.1 Description

- What meaningful tasks, projects or initiatives were you involved in? Why do you see them as meaningful? What problems did you solve or make progress on?
- Where did you feel most challenged (stretched) during this internship? Why was this challenging and how did you overcome this?
- What positive feedback and/or constructive criticism did you receive from your colleague(s), supervisor(s)? How did you respond to them? How did you implement the feedback?

3.2 Content

3.2.1 The tasks I involved

- The first component I was working on was the Save feature which is responsible for saving the file that user just edited. I improved the feature by adding new command "Save without Formatting" to the framework, allowing user to save their changes without applying any formatters. After implementing the command, I found other issues in the same module so I proposed by creating issues to track the problems, and fixed them.
- Next, I moved to working with "Search-In-Workspace" (SIW) module of the framework which the main functionality is to allow users to search for a term, then displays the results out for review. Here, I made the improvement by adding the ability for the framework to also search unsaved changes from users. Furthermore, I was proposing to the team and asked to extend the functionality of this component even more. In the end, I believe the features I added helps a lot to improve user experience since they now have a search component that is much more dynamic than before.
- Recently, the project is making a migration from Travis CI to GitHub Actions for CI-CD (services for continuous integration and continuous delivery). I proposed to be a part of this effort. As a result, I was working to re-create the pipelines for several projects in Theia:
 - <https://github.com/theia-ide/theia-apps>
 - <https://github.com/eclipse-theia/theia-cpp-extensions>
 - <https://github.com/theia-ide/generator-theia-extension>

It was my first time using CI-CD tool like GitHub, but I picked up on the way when I was implementing the pipelines.

3.2.2 Challenges

The challenge I encountered is the complexity level of the code base. I never worked in such a huge code base / project like this before. Also, the project is evolving everyday with active contributions coming in daily. This made it difficult to navigate at first. However, Ericsson has a buddy system, where new intern gets assigned with an onboarding buddy who will support the ramp-up process. In my case, he was super helpful in guiding me and helping me to understand the project better. In addition, I started the internship by fixing several small issues. Those first steps inspired me to take on more complicated tasks later on.

3.2.3 Respond to feedback

My colleagues helped me a lots by criticizing my code in a constructive manner. Through that, I have improved myself to write cleaner code and to express my idea by code more efficient and cleaer. That also helped me to learn to review other people code detailedly. This serves as a concrete foundation that helped me to gain confident to review code from other people later in the internship.

4 Application from classroom to workplace

4.1 Description

- How does this internship experience fit (or not) with your program of study? How did it align with your expectations? Provide concrete examples.
- How did you apply knowledge, concepts or skillsets learned from your coursework, labs or projects during your internship? Which course(s) helped you?
- What challenges did you experience in applying the theories and concepts you learned in class in the workplace? What differences or similarities did you notice? Why do you think this was the case?

4.2 Content

4.2.1 How this internship fits with the program of study

My program of study is Computer Science (Software Systems option). The internship fits with my study and my passion for software. I'm also a fan of open-source culture so working in an open-source project

5 From Student to Employee – Transition to the Workplace (WT1)

5.1 Description

- How was your transition and how well did you integrate the workplace?
- What impact does supervisory style, workplace culture, values and norms have on you personally and professionally
- How did you engage with your co-workers, supervisor(s) or coach and other people within the organization (ie: Internal and external to your department)?

5.2 Content

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6 MOVING FORWARD

6.1 Description

- How did this internship help you gain more clarity about your academic and career path? What is your biggest takeaway from this internship experience? What is important to you in a professional work environment?
- Share something you accomplished or are proud of. Why is this important to you? What about this task/project/ experience do you want to repeat after this internship? If you were coaching another student to be successful in this organization/position, what advice would you give them?
- What actions will you take as you plan and prepare for your next internship, study term or career move?

6.2 Content