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# **Thomas Dedinsky**

With my background in Computer Engineering and leadership activities, I approach any given task with a practical toolset of knowledge, critical thinking, and persistence which allows me to thrive in its completion.

#### <u>Languages</u>

- **■**C/C++
- JavaScript
- ■Python
- ■Java
- •SQL
- ■Verilog
- ■Bash

#### Coursework

- EmbeddedSoftware
- OperatingSystems
- DistributedSystems
- Scheduling Algorithms
- ■Network Flow Theory

### **Education**

- ComputerEngineering
- University of Waterloo (UW)
- **2016 2021**
- Combinatorics& Optimization(CO) Minor
- ■3B Exchange in France (UTC)

### Hobbies

- •Euchre
- CommunityModeration
- LeadershipConferences
- Tinkering
- Video Games & Livestreaming
- Academic Advocacy
- Online Learning

### **Work Experience**

Embedded Display Software Engineer – C/C++/Python

Qualcomm Canada

Jan 2020 - Apr 2020

- Developed for and validated the Snapdragon ASIC's software quad-pipe implementation as part of the Linux Kernel team for Android devices to allow for higher resolution displays
- Worked with and published code to both proprietary and open source Linux Kernel repositories
- Created an automated user/kernelspace testing script and a DTSI grammar implementation

## Firmware Design Engineer – C++/MATLAB Infinera Corporation

Jan 2019 - Apr 2019

- Optimized the firmware simulation code by 30% by changing variable ownership between C++ and MATLAB by using preprocessor metaprogramming for code generation to standardize inconsistent variable conversion methods and reducing redundant data transfer in library calls
- Created an automated testing suite which ran simulations on remote servers via repo commit

### Intern Software Engineer – Java/React.js/SQL

Apr 2018 - Aug 2018

Veeva Systems

- Helped develop a life sciences software solution focused on large-scale management by working full stack in several production groups and individual efforts on an agile lifecycle
- Headed the creation of an automated API documentation tool and production of our new machine learning model, as well as the entire backend of our profile layout management feature

### Mobile Developer – Ember. js/Cordova

Sept 2017 - Dec 2017

Department of National Defence

- Implemented mental health research in relaxation activities for app released on Android/iOS
- Created a content manager system to allow code-illiterate personnel to repurpose the app

### Software Developer – Java/ActionScript/SQL

Jan 2017 - Apr 2017

Bayer Pharmaceutical and Radiology

• Worked full-stack in a scrum/agile environment and reworked major application infrastructure

### **Projects**

### CEC Programming Competition Lead - Node.js

Mar 2018 - Mar 2019

- Coded and ran the Canadian Engineering Competition 2019 programming competition
- Focused on making the challenge language-agnostic by creating an API server for competitors to interact with, as well an interactive visual for judges and beta testers to easily comprehend
- Crafted an engineering problem for competitors rather than just a programming problem

### Orientation Week Website - JS/PHP/SQL

Feb 2017 - Sept 2018

Designed, implemented, maintained website in a pseudo-scrum way using industry practices

Made a dynamic user-based system with various roles using smart database management

• Created a responsive front-end web design for various size screens on both desktop and mobile

### Dielectric Field Simulation - Python

Apr 2019 - Aug 2019

 Created a working model of dielectric fields using inputted graphs and calculated intermediate values by converting the field into a series of linear equations and using numerical methods