Jasper Rubin

Electrical Engineering Student

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EDUCATION

Bachelor of Engineering
(expected graduation 2023)
Memorial University,
Newfoundland
2018 – present

SKILLS

Printed Circuit Board Design

Electronics Troubleshooting

Solidworks

KiCAD

Java, C#, C++, Python

Excel and Visio

Inkscape

Soldering

Technical Writing

VOLUNTEERING

Holy Trinity High School
Robotics Mentor
2015-Present

SPCA St John's
Cat Caretaker
2016 - 2017

EXPERIENCE

PARADIGM | ST. JOHN'S, NL | 2018 – PRESENT
Low Voltage Lead, previously Electrical Designer
- Designed LV control system for Tunnel Boring Machine
- Designed multiple PCBs including sensor data acquisition, solenoid actuation, and INS interface boards
- Authored multiple team standards and guides

Junior Designer
- Completed arc-flash safety analysis for high voltage DC drivetrain
- Completed initial layout of low voltage DC power distribution board

KRAKEN ROBOTICS | MOUNT PEARL, NL | JAN– APR, SEPT – DEC 2020
Electrical Engineering Student
- Designed precharger and capacitor bank for sonar system
- Performed QA testing on a variety of STM32 based boards
- Designed and ran multiple tests of boards and systems
- Updated PCB layouts

COREAVI | OTTAWA, ON | MAY – AUG 2019
Hardware Developer (Co-op)
- Developed symbol check system and best practice guide
- Managed component verification against company standards
- Managed ESD-compliant electrical lab and lab inventory

ENGINEERING PROJECTS
- SydP3, a miniature jukebox for playing .wav files
- HoloLM, a voltage regulator PCB for electronics prototyping
- A series of small steel forges to learn blacksmithing
- Lume, a short video game built in the Unity3D engine in 48 hours, as part of the Ludum Dare game development competition
- My website, built in pure HTML, CSS, and JavaScript

ACHIEVEMENTS
- 4.0 GPA, Dean's List
- Centenary of Responsible Government Scholarship
- Robert Gillespie Reid Memorial Scholarship
- Charlie Sheppard Memorial-Hatch Scholarship
- Duke of Edinburgh's Bronze and Silver Awards
- Chevron Canada Ltd. Term Scholarship

INTERESTS
Programming, electronics, sailing, cycling, blacksmithing, game design