Daniel Neasmith

2 Oakwood Ave
Nepean, ON
K2E 6A5

(613) 795-9323
DanNeasmith@gmail.com
https://www.linkedin.com/in/danielneasmith/

ABOUT

I am an avid learner who is constantly looking for new ways to grow and develop. I greatly enjoy gaining experience from others and working in a team. Currently, I am looking to grow into the fields of embedded software development, full stack development, and hardware design.

KEY COMPETENCIES

- Fluent in English, Intermediate French.
- Proven ability to take initiative, manage stressful situations, and adapt quickly in a fast-paced environment.
- Proven ability to communicate and operate with others of various backgrounds to accomplish a common task in a multitude of environments.
- Experience with design software Cadence Capture CIS, Cadence PCB editor, Altium CircuitMaker, and AutoCAD Fusion360.
- Proficient with MATLAB, Python, and Verilog.
- Experience with simulation software LTSpice, ModelSIM, Xilinx ISE, ANSYS electronic desktop, and Logisim.
- Experience with intermediate communication programs TeraTerm, PuTTY, Filezilla, and Postman.
- Experience with front-end development languages PHP, Javascript, and HTML.
- Experience with C, C++, C#, Java as well as use of Microsoft Visual Studio.
- Proven ability to perform extensive testing on complex circuitry under a variety of conditions.
- Proficient in hardware debugging, reworking, and the soldering of surface-mount components onto PCB boards.

EDUCATION

Bachelor of Engineering, Biomedical and Electrical, Co-op Option   **Sept 2016 – May 2021**
Carleton University, Ottawa, ON

CAREER HIGHLIGHTS

Satellite Engineering Co-op Student   **Jan 2021 - May 2021**
Telesat, Ottawa, ON
- Wrote several Python scripts used for a variety of functions such as transferring data collected at ground sites onto an intranet database using MySQL and pandas and generating perform scripts.
- Designed a webpage with PHP, Javascript, and HTML along with the HighChart and JQWidget libraries to display satellite datasets in pre-determined templates.
- Began the development of a machine learning algorithm to correlate satellite datasets for operator use.

Electrical Engineering Student   **May 2019 - Sept 2020**
Flextronics Ltd., Kanata, ON
- Designed and developed the schematic, PCB layout, and Verilog code for a device which uses multiple communication techniques to relay a select set of data from chosen sensors to a user.
- Organized a team to perform a testing subset for a physical media processing solution worth several million dollars which included verification of specifications, multidisciplinary testing, and part management.
- Wrote several Python scripts used to verify specifications and operability of a complex interconnection of PCBs and circuitry for a major site project.
- Completed power distribution tests in a student team for a PCB utilizing thermal chambers, oscilloscopes, and multimeters while communicating with on-board microcontrollers through a terminal emulator to a Linux system.
- Verified the schematic symbols and PCB footprints for several hundred components for a major site project.

Canadian Armed Forces Primary Reserve   **Oct 2018 - Current**
Canadian Armed Forces, Ottawa, ON
- Regularly contribute to a variety of military exercises to train in basic military practices and in information and communication technology as an Army Communication and Information System Specialist (ACISS).

Head Lifeguard   **Oct 2015 – May 2019**
Soloway JCC, Ottawa, ON
- Led and organized an instructional swimming program for children aged 3-12 under Lifesaving Society swimming guidelines for a variety of participant skill levels.
- Managed and monitored staff compliance with policies, guidelines, and directives.
- Organized regular lesson plans and evaluated participants based on Lifesaving Society guidelines.