

Nicolas Deklen Crocker

Electrical Engineer (E.I.T)

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🔧 Experience

Jones Microwave Inc.

Embedded System Developer

Aug. 2022 – Present

Edmonton, AB

- Develop a comprehensive market survey of several laser diode drivers for viability in custom PCB design
- Compare physical attributes of VCSELs and laser diodes for most appropriate device selection in project
- Contact component suppliers and producers for further inquiries into their products
- **Technologies:** Qucs Studio, Laser Diodes, LED Drivers, VCSELs

University of Alberta

Lifeguard

Jun. 2022 – Present

Edmonton, AB

- Provide support in the training, mentoring and organization of lifeguards
- Oversee aquatics facility in the absence of full-time and management staff
- **Certifications:** Standard First Aid CPR C & AED, National Lifeguard - Pool

Government of the Northwest Territories

Project Assistant (Summer Internship)

Apr. 2019 – Aug. 2021

Inuvik, NT

- Build and upgrade VBA tools in Excel and Access for Project Manager to receive the latest project information from all project officers across our office's jurisdiction
- Maintain project budget and status data for over 100 projects in the Beaufort and Sahtu regions
- Complete audits of multi-year and multi-contractor projects to assist in settling contract disputes
- Compile project drawing database for 1100+ engineering drawings and schematics from the region
- **Technologies:** Microsoft Access, Microsoft Excel, SQL, Visual Basic for Applications (VBA)

Government of the Northwest Territories

COVID-19 Public Health Officer

May 2020 – Aug. 2020

Inuvik, NT

- Reduce the spread of COVID-19 by processing individuals arriving from multiple flights into the community
- Communicate required information to ensure correct isolation procedures and protocols are followed

🎓 Education

Bachelor of Science in Electrical Engineering

University of Alberta

Sep. 2018 – Nov. 2022

Edmonton, AB

- Relevant Coursework: Control Systems, Data Communication Networks, Digital Logic Design, Digital Electronics, Embedded System Design, Integrated Circuit Design, Intelligent Systems Engineering, Power Engineering

⚙️ Skills

Programming Languages C, C++, Dart, LaTeX, MATLAB, Python, SQL, VBA, VHDL

Engineering Design Tools Cadence Virtuoso, KiCAD, Logic Analyzers, LTSpice, Qucs Studio

Organizational Software Git, Google Drive Suite, MS Office Suite (Word, Excel, Powerpoint, Access)

Projects

Classroom IoT Carbon Dioxide Sensor (Capstone)

Sep. 2021 – Apr. 2022

University of Alberta

Edmonton, AB

- › Design a battery recharging circuit using Lithium-Polymer and NiMH battery chemistries for portable device
- › Develop a smartphone application to interface with sensor to provide a more fluid and controlled UI
- › Frame a Bluetooth GATT Profile to exchange credential data between smartphone application and device
- › Coordinate regular meetings between the group, the client, and technical advisors through all project stages
- › **Technologies:** Bluetooth Low Energy (BLE), C++, Dart, Flutter, KiCAD, SoC

Extracurriculars

University of Alberta Powerlifting Club

Feb. 2022 – Present

- › Plan and schedule social events with other members of the club
- › Increase the community size by marketing club perks and activities to entice individuals to join

AlbertaLoop

Jun. 2022 – Present

- › Create Python script to parse data from navigation module test to diagnose issues within the GPS module's equirectangular projection process
- › **Technologies:** Python

Interests

Professional

- › Embedded System Design: Power Management, Processor, Application-Specific Circuits
- › Firmware Development: High-level Firmware, Subsystem
- › Integrated Circuit Design: Architectural Design, Logic/Circuit Design, Design Verification
- › Project Management: Scope Management, Schedule Management, Cost Management, Risk Management

Personal

- › Curling: Curled competitively for 10 years; multiple time NWT representative between Nationals and CWGs
- › Learning Languages: DELF-certified fluency in French; interested in learning German and Cantonese
- › Powerlifting: Avid powerlifting competitor; currently gearing up for Provincials in June
- › Running: High school X-country and track & field athlete

References

Available Upon Request