

# Nicolas Deklen Crocker

Electrical Engineer (E.I.T)

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🏠 [Edmonton, AB](#)

in [/ndcrocker](#)

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## Highlights

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## 🎓 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)

## 📈 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

### 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

## 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

### University of Alberta

Jun. 2022 – Present

*Lifeguard*

*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