NICOLAS DEKLEN CROCKER

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EDUCATION

Bachelor of Science in Electrical Engineering

University of Alberta

Sept. 2018 - Current Edmonton, AB

- **Graduation Date**: November 23, 2022
- **Relevant Coursework**:
  Digital Logic Design | Control Systems | Digital Electronics | Embedded System Design | Integrated Circuit Design | Intelligent Systems Engineering

WORK EXPERIENCE

ADD JOB TITLE

Jones Microwave Inc.

Aug 2022 - Present Edmonton, AB

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Project Assistant (Summer Internship)

Government of the Northwest Territories

Apr. 2019 - Aug. 2021 Inuvik, NT

- Streamline information from Project Officers to Regional Project Manager by building and upgrading tools using Visual Basic for Applications
- Manage and maintain project budget and status information for over 100 projects in the Beaufort Delta, and Sahtu regions
- Complete audits of multi-year projects to assist project officers in settling disputes with contractors
- **Technologies**: Access, Excel, SQL, VBA

PROJECTS

Classroom IoT Carbon Dioxide Sensor (Capstone)

University of Alberta

Sept. 2021 - Apr. 2022 Edmonton, AB

- Design a battery recharging circuit using Lithium-Polymer and NiMH battery chemistries for a portable device
- Develop a smartphone application to interface with sensor to provide a more fluid and controlled user interface
- Coordinate regular meetings between the group, the client and technical advisors throughout project stages
- **Technologies**: BLE, Dart, Flutter, KiCAD

Culvert (Hackathon Project)

Nov. 5 2022

SKILLS

Languages

C | C++ | Dart | LaTeX | MATLAB | Python | SQL | VBA | VHDL

Tools

Cadence Virtuoso | Git | KiCAD | Logic Analyzers | LTSpice | Qucs Studio

EXTRACURRICULARS

Member

University of Alberta Powerlifting Association

Feb. 2022 - Present Edmonton, AB

- Grow the club by marketing club perks and activities to entice individuals to join
- Plan and schedule social events with members of the club

Member - Electrical Team

AlbertaLoop

June 2022 - Present Edmonton, AB

- Improve precision of hyperloop pod's position estimator by reducing errors in the Kalman filter and coordinate system conversion modules
- **Technologies**: C++, Python

Member

Father Patrick Mercredi RSports Team

Sept. 2015 - May 2016 Fort McMurray, AB

- Built and enhanced robots for multiple high school robotics competitions (VEX, FRC)
- Learned how to follow basic design processes to develop effective robots for the required tasks
- Competed in the FRC Stronghold World Championships in St. Louis
- **Technologies**: C++, easyC