

NICOLAS DEKLEN CROCKER

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825 333 4907

NCrocker

NDCrocker

EDUCATION

Bachelor of Science in Electrical Engineering

University of Alberta

September 2019 – Current

Edmonton, AB

Bachelor of Science in Electrical Engineering (Transfer)

MacEwan University

September 2018 – April 2019

Edmonton, AB

WORK EXPERIENCE

Project Assistant (Summer Internship)

Government of the Northwest Territories

April 2019 – August 2021

Inuvik, NT

- Assist Regional Project Manager in developing tools in visual basic to streamline sharing of information from the project officers to the regional projects manager
- Develop and update project budget and status spreadsheets from Project Budget Reports (PBRs), an Project Status Reports (PSRs)
- Assist project officers with performing audits in projects to help resolve disputes between contractors and Infrastructure
- **Technologies:** SQL, VBA, Excel

COVID-19 Response Public Health Officer

Government of the Northwest Territories

May 2020 – August 2020

Inuvik, NT

- Assisted with processing visitors into the Town of Inuvik off the flights coming from Yellowknife and outside the Northwest Territories
- Directing visitors to ensure that proper isolation procedures were followed

PROJECTS

Classroom IoT Carbon Dioxide Sensor (Capstone)

University of Alberta

Edmonton, AB

Sept 2021 – Apr 2022

- Design a battery recharging circuit using both Lithium-Polymer and NiMH battery topologies for a portable device.
- Develop a smartphone application using Flutter (Google's SDK) to interface with our device to provide a more fluid and controlled user interface
- Act as a primary contact between the group, the client and technical advisors to coordinate regular meetings
- Develop skills to successfully manage an electrical engineering project from start-up to close-out
- **Technologies:** Dart, KiCAD

SKILLS

Programming Languages and Tools

C C++ Dart KiCAD LaTeX MATLAB
SQL VBA VHDL

Spoken Languages

English
French



EXTRA-CURRICULARS

Member

University of Alberta Powerlifting Association

Edmonton, AB

February 2022 – Present

Member - Software Team

AlbertaLoop

Edmonton, AB

June 2022 – Present

- Improving the estimator accuracy of the navigation module by reducing error caused in the floating point calculations and the Kalman filter used by the hyperloop pod
- Developing skills in interacting with members across multiple technical teams
- **Technologies:** C/C++

Member

Father Patrick Mercredi RSports Team

Fort McMurray, AB

September 2015 – May 2016

- Develop and build robots for multiple high school robotics competitions (VEX, FRC)
- Learn how to follow design processes in order to develop the robots to perform effectively
- Qualified and competed in the FRC "Stronghold" World Championship in St. Louis

REFERENCES

Available upon request