

# NICOLAS DEKLEN CROCKER

@deklen.crocker@outlook.com

825 333 4907

in NDCrocker

ND Crocker

## EDUCATION

### Bachelor of Science in Electrical Engineering

#### University of Alberta

September 2018 – Current

Edmonton, AB

- MacEwan First-Year Engineering Transfer Program (2018-19)
- Expected Graduation Date: September 1st, 2022

## WORK EXPERIENCE

### Project Assistant (Summer Internship)

#### Government of the Northwest Territories

April 2019 – August 2021

Inuvik, NT

- Upgraded and built tools in visual basic to streamline sharing of information from the project officers to the regional projects manager using Microsoft Excel and Access
- Updated regional project budget and status spreadsheets with over 100 projects from their respective Project Budget Reports, an Project Status Reports
- Performed audits to assist project officers in settling disputes between the Department of Infrastructure and contractors
- Technologies:** SQL, VBA, Excel

### COVID-19 Response Public Health Officer

#### Government of the Northwest Territories

May 2020 – August 2020

Inuvik, NT

- Processed visitors entering the community via airlines to ensure the community was protected from exposure to COVID-19
- Directed 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

- Designed a battery recharging circuit using both Lithium-Polymer and NiMH battery topologies for a portable device.
- Developed a smartphone application using Flutter (Google's SDK) to interface with our device to provide a more fluid and controlled user interface
- Acted as a primary contact between the group, the client and technical advisors to coordinate regular meetings
- Developed 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

## EXTRA-CURRICULARS

### Member

#### University of Alberta Powerlifting Association

Edmonton, AB

February 2022 – Present

- Help 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

Edmonton, AB

June 2022 – Present

- Improve 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
- Develop 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

- Developed and built robots for multiple high school robotics competitions (VEX, FRC)
- Learned how to follow design processes to develop effective robots for the tasks they are required to complete
- Qualified and competed in the FRC "Stronghold" World Championship in St. Louis

## REFERENCES

Available upon request