

# NICOLAS DEKLEN CROCKER

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825 333 4907

NCrocker

NDCrocker

## 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: August 30th, 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
- Developed and 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

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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