

# NICOLAS DEKLEN CROCKER

@deklen.crocker@outlook.com

825 333 4907

in NDCrocker

ND Crocker

## EDUCATION

Bachelor of Science in Electrical Engineering

University of Alberta

Sept. 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

Apr. 2019 - Aug. 2021

Inuvik, NT

- Streamline the sharing of information from the project officers to the regional projects manager by building and upgrading tools using visual basic within 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 - Aug. 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

Sept. 2021 - Apr. 2022

Edmonton, AB

- 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
- Advanced 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

Feb. 2022 - Present

Edmonton, AB

- 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

June 2022 - Present

Edmonton, AB

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

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 design processes to develop effective robots for the required tasks
- Competed in the FRC Stronghold World Championships in St. Louis

## REFERENCES

Available upon request