

# NICOLAS DEKLEN CROCKER

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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 project officers to the regional projects manager and other higher ups by building tools in Visual Basic for applications to reduce the collection time of this information by approximately 50%.
- 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 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

- Protect the community of Inuvik from exposure to COVID-19 by processing individuals entering the community via airplane
- Direct and provide required information to visitors ensuring correct isolation procedures were followed

## 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 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 primary contact between the group, the client and technical advisors to coordinate regular technical meetings
- Learn advanced skills in managing electrical engineering projects from start-up to close-out
- Technologies:** Dart, KiCAD, BLE

## SKILLS

Programming Languages and Tools

C C++ Dart KiCAD LaTeX  
MATLAB SQL VBA VHDL

## 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

- Reduce the error occurring within kalman filter and coordinate system conversion of the navigation module to improve the accuracy of the position estimator of 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 basic design processes to develop effective robots for the required tasks
- Competed in the FRC Stronghold World Championships in St. Louis

## REFERENCES

Available upon request