

NICOLAS DEKLEN CROCKER

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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
- Manage and maintain project budget and status information for over 100 projects in the Beaufort Delta, and Sahtu regions
- 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

- Protect the community of Inuvik from exposure to COVID-19 by processing individuals entering the community via airplane
- Directed and provided required information to visitors ensuring 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 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 primary contact between the group, the client and technical advisors to coordinate regular technical meetings
- Learned advanced skills in managing an electrical engineering project 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 the 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 with specific tasks
- Competed in the FRC Stronghold World Championships in St. Louis

REFERENCES

Available upon request