

# 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

• **Graduation Date:** November 23, 2022

• **Relevant Coursework:**

Digital Logic Design

Control Systems

Digital Electronics

Embedded System Design

Integrated Circuit Design

Intelligent Systems Engineering

## WORK EXPERIENCE

Project Assistant (Summer Internship)

Government of the Northwest Territories

Apr. 2019 - Aug. 2021

Inuvik, NT

- Streamline information from project officers to regional projects manager by building and upgrading tools using Visual Basic for Applications
- 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 with contractors
- **Technologies:** Access, Excel, SQL, VBA

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 to interface with our device to provide a more fluid and controlled user interface
- Coordinate regular meetings between the group, the client and technical advisors throughout project stages
- **Technologies:** BLE, Dart, Flutter, KiCAD

## SKILLS

### Languages

C

C++

Dart

LaTeX

MATLAB

SQL

VBA

VHDL

### Tools

Cadence Virtuoso

Git

KiCAD

Logic Analyzers

LTSpice

## 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.
- **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