Nicolas Deklen Crocker

Electrical Engineeer (E.I.T)

📞 +1 (825) 333-4907
✉ deklen.crocker@outlook.com
🏠 Edmonton, AB
in /ndcrocker
○ /NDCrocker

Highlights

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🎓 Education

Bachelor of Science in Electrical Engineering   Sep. 2018 – Nov. 2022
University of Alberta   *Edmonton, AB*

> Relevant Coursework: Control Systems, Data Communication Networks, Digital Logic Design, Digital Electronics, Embedded System Design, Integrated Circuit Design, Intelligent Systems Engineering, Power Engineering

⚙ Skills

Programming Languages   C, C++, Dart, LaTeX, MATLAB, Python, SQL, VBA, VHDL
Engineering Design Tools   Cadence Virtuoso, KiCAD, Logic Analyzers, LTSpice, Qucs Studio
Organizational Software   Git, Google Drive Suite, MS Office Suite (Word, Excel, Powerpoint, Access)

◔ Experience

Jones Microwave Inc.   Aug. 2022 – Present
Embedded System Developer   *Edmonton, AB*

> Develop a comprehensive market survey of several laser diode drivers for viability in custom PCB design

> Compare physical attributes of VCSELs and laser diodes for most appropriate device selection in project

> Contact component suppliers and producers for further inquiries into their products

> **Technologies:** Qucs Studio, Laser Diodes, LED Drivers, VCSELs

Government of the Northwest Territories   Apr. 2019 – Aug. 2021
Project Assistant (Summer Internship)   *Inuvik, NT*

> Build and upgrade VBA tools in Excel and Access for Project Manager to receive the latest project information from all project officers across our office's jurisdiction

> Maintain project budget and status data for over 100 projects in the Beaufort and Sahtu regions

> Complete audits of multi-year and multi-contractor projects to assist in settling contract disputes

> Compile project drawing database for 1100+ engineering drawings and schematics from the region

> **Technologies:** Microsoft Access, Microsoft Excel, SQL, Visual Basic for Applications (VBA)

Government of the Northwest Territories   May 2020 – Aug. 2020
COVID-19 Public Health Officer   *Inuvik, NT*

> Reduce the spread of COVID-19 by processing individuals arriving from multiple flights into the community
> Communicate required information to ensure correct isolation procedures and protocols are followed

🧪 Projects

Classroom IoT Carbon Dioxide Sensor (Capstone) �
Sep. 2021 – Apr. 2022
University of Alberta
Edmonton, AB

> Design a battery recharging circuit using Lithium-Polymer and NiMH battery chemistries for portable device
> Develop a smartphone application to interface with sensor to provide a more fluid and controlled UI
> Frame a Bluetooth GATT Profile to exchange credential data between smartphone application and device
> Coordinate regular meetings between the group, the client, and technical advisors through all project stages
> **Technologies:** Bluetooth Low Energy (BLE), C++, Dart, Flutter, KiCAD, SoC

👥 Extracurriculars

University of Alberta Powerlifting Club
Feb. 2022 – Present

> Plan and schedule social events with other members of the club
> Increase the community size by marketing club perks and activities to entice individuals to join

AlbertaLoop
Jun. 2022 – Present

> Create Python script to parse data from navigation module test to diagnose issues within the GPS module's equirectangular projection process
> **Technologies:** Python

University of Alberta
Jun. 2022 – Present
Lifeguard
Edmonton, AB

> Provide support in the training, mentoring and organization of lifeguards
> Oversee aquatics facility in the absence of full-time and management staff
> **Certifications:** Standard First Aid CPR C & AED, National Lifeguard - Pool