Nicolas Deklen Crocker

Electrical Engineeer (E.I.T)

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◔ Experience

Jones Microwave Inc.
Embedded System Developer

Aug. 2022 – Present
Edmonton, AB

> Develop a comprehensive market survey of several laser diode drivers for viability in custom PCB design
> Research further background theory in the physical attributes of VCSELs and laser diodes for their successful implementation for application specific PCB
> **Technologies:** Qucs Studio, Laser Diodes, VCSELs, Laser Drivers

University of Alberta
Lifeguard

Jun. 2022 – Present
Edmonton, AB

> Respond to and support fellow lifeguards during medical emergencies and patron incidents
> Lead other lifeguards to provide a safe and comfortable environment for all patrons
> 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

Government of the Northwest Territories
Project Assistant (Summer Internship)

Apr. 2019 – Aug. 2021
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
> Manage and maintain project budget and status information for over 100 ongoing and upcoming projects in the Beaufort and Sahtu regions
> Complete audits of multi-year and multi-contractor projects to assist project officers in settling disputes with contractors
> **Technologies:** Microsoft Access, Microsoft Excel, SQL, Visual Basic for Applications (VBA)

Government of the Northwest Territories
COVID-19 Public Health Officer

May 2020 – Aug. 2020
Inuvik, NT

> Protect the community of Inuvik from exposure to COVID-19 by processing individuals arriving from multiple different flights into the community
> Direct and communicate required information to visitors ensuring correct isolation procedures and protocols are being followed

🎓 Education

Bachelor of Science in Electrical Engineering
University of Alberta

Sep. 2018 – Nov. 2022
Edmonton, AB

> MacEwan First-Year Engineering Transfer Program - 2018/19
> Relevant Coursework: Digital Logic Design, Control Systems, Digital Electronics, Embedded System Design, Integrated Circuit Design, Intelligent Systems Engineering, Power Engineering

🧪 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 user interface
- › Coordinate regular meetings between the group, the client, and technical advisors through all project stages
- › **Technologies:** Bluetooth Low Energy (BLE), Dart, Flutter, KiCAD

👥 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:** C++, Python

⚙ Skills

Languages   C, C++, Dart, LaTeX, MATLAB, Python, SQL, VBA, VHDL

Tools   Cadence Virtuoso, Git, KiCAD, Logic Analyzers, LTSpice, Qucs Studio

🎮 Interests

Professional   Integrated Circuit Design, Embedded System Design, PCB Design, Project Management, Firmware Development

Personal   Powerlifting, Music, Linguistics, Running, Photography, Reading, Curling, PC Building, Gaming

✉ References

Available Upon Request