Nicolas Deklen Crocker

Electrical Engineeer (E.I.T)

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in /ndcrocker
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◔ Experience

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

> Develop a comprehensive market survey of dozens of multiple 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 Jan. 2023 – Present
Head Lifeguard *Edmonton, AB*

> Lead and direct other Lifeguards to provide a safe and comfortable environment for all patrons
> Support fellow lifeguards during medical emergencies and patron incidents
> Provide support in the training, mentoring and organization of lifeguards
> Oversee aquatics facility in the absence of full-time and management staff

University of Alberta Jun. 2022 – Dec. 2022
Lifeguard *Edmonton, AB*

> Work with other Lifeguards to provide a safe and comfortable environment for all patrons
> Support fellow lifeguards during medical emergencies and patron incidents

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

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

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

Town of Inuvik Jul. 2018 – Aug. 2018
Day Camp Senior Counsellor *Inuvik, NT*

> Manage and schedule junior counsellors to provide a safe, engaging and fun day camp for kids

- Use Microsoft Office programs to provide in-depth reports about budget and attendance for the Inuvik Summer Day Camp
- **Technologies:** Microsoft Word, Microsoft Excel

East Three Secondary School
Support Assistant

Mar. 2018 – Jun. 2018
Inuvik, NT

- Produce a safe and productive work environment for all students with the help of other Support Assistants, staff and Teachers
- Support teachers and other staff members with any issues or extra tasks that need to be completed to prepare for the following class
- Provide additional lessons and tutoring for students in academic stream math and science courses (Chemistry 20 & 30, Math 10-1, Math 20-1 & 30-1, Physics 20 & 30)

🎓 Education

University of Alberta
Bachelor of Science in Electrical Engineering

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

⚗ Projects

University of Alberta
Classroom IoT Carbon Dioxide Sensor (Capstone)

Sep. 2021 – Apr. 2022
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

⚙ 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