

## **Dean A. McIsaac**

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PEI Stratford, C1B 2W3

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## **Education**

### **University of New Brunswick (Fredericton, NB) 2014-2018**

BSc. Electrical Engineering (Grad May, 2018)

### **Holland College (Charlottetown, PE) 2012-2014**

Electronics Engineering Technology (Grad May, 2014)

## **Skills & Abilities**

- Working as part of a team
- Basic computer software
- Multitasking
- Learning tasks quickly
- Meeting tight deadlines
- Creating design requirements
- Organized and efficient
- Good communication skills
- Maintaining equipment
- Heavy lifting

## **Work Experiences**

### **Electrical Engineer-in-Training (January 2020 – January 2021) Frontier Power Systems**

Duties: Worked on the control electronics for Frontier's wind turbines. Made electrical drawings in AutoCAD, made 3D layouts in Solidworks and commissioned the control panels. Helped with maintenance of Turbines remotely with monitoring software. Tested and repaired smaller components for control cabinets.

### **Deli Clerk (March 2019 - January 2020) Sobeys Charlottetown**

Duties: Cooked food for the hot display cases, cleaned the equipment and cooking area, packaged food to store in the freezer, served customers, and restocked supplies.

### **Material Testing Lab Laborer (May - August 2017) PEI Department of Transportation**

Duties: Collected pavement samples from asphalt plants around the province, prepared soil and asphalt samples for testing and measurement, helped to create asphalt control tests, measured the different sizes of rocks and grains using sieves (gradation test), and inputted that data into computer records.

**Shellfish Analytical Lab Assistant (May - August 2016) PEI Department of Agriculture and Fisheries**

Duties: Cleaned and maintained boats, collected water samples and prepared them for analysis, set up and retrieved shellfish Spat Traps at various locations around the province.

**Data Collector (July - August 2015) PEI Department of Transportation**

Duties: Recorded data on all equipment and materials used during each day at the job sites. Worked with a road crew to repair road damage and replace culverts.

**Tree Nursery Assistant (May – August 2014) PEI Department of Agriculture Forestry**

Duties: Prepared planting sites, planted trees, transplanted saplings, and completed required maintenance on nursery stock.

**Watershed Management (July – August 2012) & (July –August 2013) Pisquid River Management Association**

Duties: Worked as part of a maintenance crew to enhance water flow, remove barriers, and improve habitat in the watershed.

**Farm Worker (June – August 2011) MacKenzie Produce Ltd.**

Duties: Harvesting, grading, packaging farm produce. Property maintenance.

## **Training**

- WHMIS certified, First Aid and CPR Certified.
- Basic Circuitry and circuit building tools: soldering and prototyping.
- Use of electrical testing tools such as multimeters and oscilloscopes.
- Basic programming skills in C# and C programming languages.
- FRDM microcontroller and Arduino microcontroller programming.
- Familiar with 3D modeling software such as FreeCAD and Blender.
- Course work in project management.
- Well versed with Microsoft products such as Word, Excel, and Project
- On the job training for AutoCAD and Solidworks software.

## **Volunteer Experience**

Farm worker: Sunny Isle Holsteins, Mermaid, PE. Assisted with the treatment of cattle as well as their care and maintenance. Have volunteered many times and continue to help out when asked.

Guitar teacher: Volunteered to teach young people how to play the guitar.

Entertainer: Have provided musical entertainment at numerous churches, seniors' homes and community functions.

## **Interests**

Academic:

Audio engineering, Building electronic devices with Microcontrollers, Power systems, Embedded system design and Signal transmission.

Other:

Music, reading, computers, hunting, fishing, camping, traveling, solving puzzles, languages and cooking.

## **References**

Carl Brothers, Owner, Frontier Power Systems

Phone: (902) 853-6800

Nancy Wood, Lab Supervisor, Material Testing Lab

Phone: (902) 676-7983

Dr. Brent Petersen, UNB Professor

Phone: (506) 447-3328

Email: b.petersen@ieee.org

Mr. Robert Morrison, Instructor EET (retired), Holland College

Phone: (902) 566-9386