

# Russell Peden

## BSc. Sustainable Design Engineering

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### Objective

A recent graduate with a Bachelor's degree in Sustainable Design Engineering, specializing in Renewable Energy. Eager to leverage hands-on technical experience, project management skills, and collaborative mindset in a full-time Engineer in Training (EIT) role. Passionate about contributing to innovative and sustainable engineering solutions.

### Education

#### **Bachelor of Science, major in Sustainable Design Engineering, Specialization in Renewable Energy**

University of Prince Edward Island | 2017 – 2021

Relevant Coursework: Advanced Energy Storage, Microgrids, Sustainable Energy, Energy Efficiency

#### **Microcredential, Introduction to Building Envelope Science**

Holland College | 2024

### Projects

#### **Parks Canada | Cavendish Campground NetZero**

- In collaboration with team members developed a project proposal for installation of a Photo-Voltaic energy source and facilities upgrades to achieve a Net-Zero emissions site footprint.
- This project focused on replacing fossil fuel systems with energy efficient electrical appliances, energy consumption analysis, energy modelling with Homer and Aurora and site surveying.

### Experience

#### **Manufacturing Technician**

AKA Energy Systems | Pools Corner, PEI | Feb 2024 - Present

- Build and assemble Diesel Electric Drive cabinets, control cabinets, BESS cabinets, AC breaker cabinets, behind the meter energy storage solutions.
- Read and interpret schematics, blueprints and electrical code specifications.
- Installing, replacing and repairing switch boxes, conduits, coaxial cable assemblies, feeders, lighting fixtures, receptacles and other electrical components.
- Troubleshoot, repair and maintain industrial, electronic and electrical control systems.

#### **Engineer In Training**

Upcycle Green Technology | Stratford, PEI | June 2022- Jan 2024

- Developed and tested electric vehicle conversion prototypes.
- Hands on experience diagnosing, troubleshooting and testing of Battery Management Systems (BMS), battery technology, DC/DC converters, AC motor controller/inverter systems.
- Design of various components in Onshape, drafting BOM, ordering components.
- Contacting suppliers, met with business partners, drafting federal funding proposals, managing team members.

#### **Solar Installer Crew Lead and Quality Assurance Technical Lead**

MiEnergy | Slemon Park, PEI | Feb – June 2022

- QA Technical Lead - responsible for inspecting and tracking all materials delivered on site as well as ensuring the solar racking and installation was accurately completed.
- Crew Lead responsible for supervision of installation team during project.

## Licensing

- Enrolled as an EIT with Engineers PEI (2022-Present)

## Certifications

- WHMIS Training (2024)
- CPR First Aid & Safety Services: Basic First Aid (2024)

## Volunteer Activities

Canadian Ski Patrol | October 2024 – Present

- Training to become a licenced Ski Patroller through Brookvale Ski Patrol.
- Training to obtain my Advanced First Aid certification

PEI Ultimate Frisbee League | April 2024 - Present

- Executive Board member PEI Ultimate sports league, responsible for ensuring the sport is organized, planning events, booking fields, keeping meeting minutes, setting up field equipment.

## Skills

### Technical Skills

- Design and Modelling: Solidworks, AutoCAD, MATLAB, Onshape
- Energy & Solar Software: HOMER Energy, Aurora Solar
- Surveying & GIS: Surveying with grade rods, GIS mapping
- Computer Proficiency: Microsoft Office Suite (Word, Excel, Powerpoint), Windows OS

### Soft Skills

- Collaboration & Communication: Foster a positive, collaborative working environment
- Adaptability: Open to learning, knowing when to seek help or guidance
- Integrity: Committed to honesty and transparency in all work
- Work Ethic: Reliable and focused on meeting deadlines and project goals

### Transferable Skills

- Project Management: Led teams with a focus on team dynamics and project success
- Organization and Stress Management: Effectively manage tasks and priorities under pressure
- Goal-Oriented: Dedicated to contributing meaningfully to projects, regardless of the role
- Learning & Problem-Solving: Adapt quickly to new challenges

### Hobbies

- Outdoor Sports & Activities: Sports and fitness help me maintain focus and manage stress, while building a sense of teamwork in competitive environments.
- Automotive Repair: Passionate about diagnosing and repairing vehicles, honing my problem-solving, technical skills, and ability to work with complex mechanical systems.
- Socializing with friends and family: Enjoy spending quality time with loved ones, which helps me maintain a healthy work-life balance and build strong interpersonal relationships.