

Jonathan Berger, MASc

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CAREER SUMMARY

- Recent graduate with project management, coordination and design experience with an engineering focus
- Able to effectively analyze and meet requirements for projects with various engineering challenges
- Proven track record of success in high-pressure environments, overcoming adversity to accomplish tasks
- Functionally bilingual and proven adaptability to changing work tasks and functions
- Objective: Secure a permanent full-time position that can use project management and/or design skillsets

EXPERIENCE**POTENTIA RENEWABLES, INC.****Engineering Project Coordinator****March 2017- Present**

- Facilitated development/completion of 68 solar rooftop projects as coordinator (~9.5 MWdc)
- Coordinated due diligence for acquisition of 47 rooftop and 17 ground mount projects in southern Ontario (~14 MWdc)
- Tracked development/procurement process for 57 projects (~8.3 MWdc)
- Developed preliminary layout drawings of ground-mount solar installation in the Dominican Republic (~50 MWdc)
- Finalized AutoCAD designs for 57 solar rooftop installations (~8.3 MWdc)
- Created AutoCAD drawings for new ballasted rooftop solar racking designs as project leader
- Organized, created, and submitted Purchase Orders & Building Permit applications
- Assembled comprehensive engineering reports for onsite visits/evaluations, and prepared associated invoices
- Participated in Corporate Social Responsibility (CSR) committees, helping to form decisions at a corporate level

QUEEN'S UNIVERSITY, SOLAR CALORIMETRY LABORATORY (SCL)**Research Assistant****2013-2016**

- Effected setup and maintenance of laboratory facilities under direction of supervising professor
- Constructed a "solar simulation box" (simulates sunlight indoors) and mobile Photovoltaic/Thermal (PV/T) collector in coordination with colleagues to aid in undergraduate and graduate student education
- Collected performance-related data (efficiency, voltage/current, incident radiation, temperature) on select solar panels
- Mentored undergraduate students to develop their research competencies (e.g., using TRNSYS in 4th year final projects, using laboratory equipment during summer internships)

Teaching Assistant**2013-2015**

- Designed problems for undergraduate student evaluations
- Conducted tutorials for undergraduate students in coordination with supervising professors and other teaching assistants
- Worked with undergraduate students to solve problems, both in tutorials and select office hours

EDUCATION**QUEEN'S UNIVERSITY****Masters of Applied Science, Mechanical Engineering****2013-2016**

- Thesis Title: *The Modelling of Photovoltaic, Solar Thermal, and Photovoltaic/Thermal (PV/T) Domestic Hot Water Systems*
- Modelled solar domestic hot water systems for five Canadian locations using TRNSYS software
- Demonstrated increased efficiencies in Photovoltaic/Thermal (PV/T) systems using various performance evaluation methods including collector efficiency and solar fraction
- Established that Photovoltaic domestic hot water systems are 81% less expensive in the short term and Photovoltaic/Thermal systems are 70% more cost-effective in the long-term using a Present Worth Analysis
- Speaker at Smart Net-Zero Energy Buildings Strategic Research Network (SNEBRN)

Bachelor of Engineering and Applied Science, Engineering Physics Major**2009-2013**

- Fourth Year Thesis: *Reinvent The Toilet*
- Queen's Space Engineering Team Member
- Faculty Board Representative, Webmaster - Queen's Engineering Society Year Executive
- Science Formal Representative - Engineering Physics Student Council
- Treasurer - Fourth Year Design Project (Robot Hand with Wireless Tactile Feedback)

PERSONAL

- Languages: English (Fluent), French (Intermediate)
- Interests: hiking (Mt. Marcy, Ishpatina Ridge), canoeing (James Bay, Hudson Bay), music (trombone, guitar)
- Leadership and Charitable Work: Fire Warden for PRI., Volunteer for TREC Education Kid's Renewable Energy Festival, Volunteer for Markham-Thornhill federal byelection, Volunteer for Notre Dame de Grace-Westmount federal constituency office, Duke of Edinburgh Gold Level, Volunteer at Chiang Mai Elephant Sanctuary, Queen's Swing Dance Club Instructor, second place Kingston Yacht Club Summer Regattas