

ALEXANDER SURIYUTH

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Recent **engineering graduate** and competitive cyclist with a desire for personal growth and to develop **impactful projects** focusing on **creativity** and **sustainability**.

highlights:

↪ **Analyzed** the feasibility, design and integration of **daylighting systems** into the Carleton University High Performance Building Multidisciplinary Capstone Project.

↪ Worked within and **managed** the front-of-house **service team** of *The Cyclery* to ensure that the appropriate solutions for customer needs were identified and executed while deadlines were met successfully.

↪ **Brand ambassador** representing *Knolly Bikes* and *The Cyclery* in eastern Canada/USA through community engagement, commitment to racing and regular media contributions.

education:

Carleton University:

Bachelor of Engineering:
Sustainable and Renewable Energy
w/ minor: Business for Engineers.
2013 - 2018

work experience:

Terrasculpt Inc. *General Labourer*

Nov. - Dec. 2018
Mont Ste. Marie QC

- Used and maintained small engine tools (chainsaws, leaf blowers, and brush cutters) and mini-excavator (Kubota U17) to support the development of new mountain biking trails and ski runs at Mont Ste. Marie ski hill.

The Cyclery

2016 - 2018
Ottawa ON

Front Service Technician and Manager

- Organized workflow and delegated front service tasks to meet deadlines.
- Worked in a team environment to identify and execute appropriate solutions for customer's needs.
- Assembled and serviced primarily high end bicycles, including race bikes for local and national level athletes.

J&J Cycle

2011 - 2016
Kingston ON

Salesperson and Mechanic

- Determined customer needs and provided the appropriate response to promote sales and improve customer satisfaction.
- Assembled and maintained entry and mid-range hybrids and mountain bikes.

Alec Suriyuth

2011 - 2014
Kingston ON

Independent Videographer

- Collaborated with local businesses to showcase and generate public awareness of their products and services.
- Past clients: Kingston Water Access Group/City of Kingston, Unovelo Bicycles, Sanger's Shotcrete and Westbrook Golf Club.

applied projects:

alecsuriyuth.ca

2018 - Present

[\[Link\]](#)

- Ongoing development of a personal web space to showcase and promote my brand and experiences.
- Programs used: Github (hosting), Cloudflare (SSL services) and Brackets (development).

Northern Nomad Tiny Home

2017

[\[Link\]](#)

- Assisted in construction related activities for the Carleton University Northern Nomad tiny home including blower door testing and interior finishing.

applied projects continued:

**Capstone
Project: High
Performance
Building**
2016 - 2017
[\[Link\]](#)

- Led a team of seven students to design and integrate innovative power generation and smart building systems into the project based on the ZIBI development in Ottawa ON.
- Utilized DIALux to analyze the feasibility and use of daylighting systems (light shelves, light pipes, a unique false ceiling design) to improve occupant health and productivity in order to meet LEED certification criteria.
- Integration with the large, multidisciplinary team was a primary focus of the project.

**Term Project:
Brigid's Well Pub
Marketing Plan**
2017

- Developed and presented a marketing plan based on *Brigid's Well Pub*.
- Market research, segmentation and situational analysis was completed and strategic recommendations were developed.

**Term Project:
Net-Zero
Townhouse**
2016

- Worked with a small multidisciplinary team to design a net-zero townhouse using SketchUp and HOT2000.
- Considered onsite renewable power generation, HVAC, lighting, and building envelope during design.
- Calculated energy load to size an appropriate HVAC system.

**Term Project:
Small Scale
Hydrokinetic
Power Plant**
2016

- Designed a hydroelectric power plant for Fort Liard, NWT utilizing the Mackenzie River.
- Climate and geotechnical data was used to determine feasibility and outline project restrictions.
- Utilized Creo Parametric and QBlade to design and 3D print the body of a scaled hydrokinetic turbine for testing in the Carleton University wind tunnel.

skills:

Technical:

- Working knowledge of Creo Parametric, QBlade, DIALux, Matlab, Excel, Word, and VSCO.
- Applied engineering theory to solve thermodynamics, heat transfer and fluid machinery problems.
- Experienced and knowledgeable in complete bicycle assembly and component servicing.
- Knowledgeable in HTML and CSS coding.

Leadership:

- Led project groups to complete deliverables on time and to meet specified requirements.
- Experienced utilizing the diversity of a team as a strength to improve overall team performance.
- Expressed the leadership qualities and community involvement representative of a successful brand ambassador.

extra-curricular activities/interests:

Athlete: Enduro Mountain Biking

- Commitment to year round to training, health and high level competition.
- 2018 Enduro World Series Global Ranking: 324th.
- Supported by D.I.Y. MTB and Knolly Bikes.
- Return on investment to sponsors and support in the form of community involvement and media production.
- Media published on Pinkbike.com.

Photography

[\[Link\]](#)

- A primarily self-growth focused project to expand technical and storytelling abilities with the goal to create thought-provoking and impactful photographs.
- Commercial contributions for Bombtrack Bicycle Company, Knolly Bikes and Kitsbow Apparel.