

Dawson Tilley

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EDUCATION

Queen's University

Bachelor of Applied Science in Electrical Engineering

Kingston, ON

Sept. 2017 – May 2021

PROJECTS

Inspirational Quotes Website

- Used Node JS to make a full stack web application for sharing your favourite quotes.
- Added authorization to API routes in order to secure the site.

Fake Facial Identifier

- Developed facial recogniser using OpenCV to identify real faces or pictures of faces.
- Used a Cascade Classifier to identify the amount of key points in real or fake images to make a final decision.

Celebrity Age Guesser

- Utilized Java to create an interactive game guessing celebrities ages.
- Designed an interactive UI in android studio, making the game accessible for people with an android device.

EXPERIENCE

Electrical Engineering Designer

June 2021 – Present

H.H Angus & Associates

Toronto, ON

- Utilized machine learning algorithms to analyze business optimizing data-sets for clients.
- Performed engineering calculations and cost estimates for projects.
- Prepared design solutions for mission critical data infrastructure belonging to multiple fortune 500 companies.

Electrical Engineering Intern

July. 2020 – August 2020

M&R Engineering

Halifax, NS

- Designed electrical system using industry developed standards and regulations.
- Utilized safety-first design standards to ensure safe system design for clients.

Engineering Co-op Student

May. 2019 – August. 2019

Weir Naval Engineering Test Establishment

Halifax, NS

- Drafted reports on operational capabilities of Atlantic Navy fleet using Microsoft Office.
- Managed data and storage of previous surveys and reports.

Project Coordinator Intern

May. 2018 – August 2018

Dexter Construction

Halifax, NS

- Performed financial analysis and cost optimization for \$2,000,000 infrastructure project.
- Coordinated Project requirements with internal and external clients to ensure on schedule execution of projects.
- Contributed to organizational change initiatives, including digitization of time-sheets.
- Utilized Gantt Charts to managed numerous ongoing projects and resources.

EXTRA CURRICULARS

Queen's Engineering Conference on Industry and Resources (CIRQUE) | *Co-Chair*

2020 – 2021

- Co-managed an 18-person executive team to run a 70-person conference.
- Managed a budget of over \$10,000.
- Re-organized event to digital format due to COVID-19 while increasing engagement.

Queen's University Algorithmic Network Trading Team (QUANTT) | *Analyst*

2019 – 2021

- Coded trading algorithms using Python.
- Developed predictive models using machine-learning to aid in price prediction.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, HTML/CSS, AutoCAD

Libraries/Frameworks: Pandas, NumPy, Matplotlib, SciKit-Learn, Node, Express, MongoDB, React

Software: Microsoft Office