# RYAN CHU

**Phone:** 416-254-8580 **Email:** ryan.chu@queensu.ca **In:** linkedin.com/in/ryan-chu

## EDUCATION

### Bachelor of Engineering Physics with Mechanical Specialization, B.A.Sc.

Queen's University

*September 2017 – April 2022* *Kingston, ON*

- GPA of 3.63/4.30 with Dean's Scholar Honours in all years of study
- Minor in Commerce at The Smith School of Business
- **Relevant Courses:** Experimental Data Management I Automatic Controls I Computational Physics I Quantum Mechanics I Mathematical Methods I Accounting I Marketing I Finance I Economics

## EXPERIENCE

### Technical Analyst

Deloitte

*May 2020 – Present* *Waterloo, ON*

- Professional Experience Year (PEY) between 3rd and 4th year of university
- Facilitated direct client contact and coordination of R&D investment incentives claim activities to strategically identify candidate projects to pursue. Applied engineering concepts to specific projects and communicated with client technical teams to understand their technology and financial documentation.
- Lead a data analytics project to identify areas for growth based on the technical data of ~100 previous engagements in the manufacturing and technology industries; to present metrics in an Excel dashboard to aid senior management in the design of strategic operational plans.
- **Technologies:** Excel I PowerPoint I Word I Project Management Tools

### Business Data Analyst

Allergan Pharmaceuticals

*May 2019 – August 2019* *Toronto, ON*

- Introduced several data driven insights with a Python code to identify marketing KPIs and automate the analysis of updated physician and patient data which decreased the previous excel based analysis time by 40%.
- Built SQL scripts to wrangle data from a 200,000-patient database and organized unique data sets with corresponding documentation for a team of external consultants to utilize once the term was complete.
- Published and built 7 Power BI dashboards to model the business unit sales and outreach metrics. Accomplished by integrating live objects from Sales Force and presenting insights to build a product marketing strategy.
- **Languages & Packages:** SQL I Python I Pandas (pd) I Power BI I Excel

### Program Developer

The University of Toronto

*April 2019 – August 2018* *Toronto, ON*

- Designed an educational program on mechanical and computer engineering to help elementary and high school students apply theory to actual applications.
- Presented 3 lessons a day to over 100 students and documented each lesson plan for other instructors to learn and teach physics, programming, and mathematics.
- **Skills:** Python I C I PowerPoint I Teaching I Public Speaking

## SKILLS

### Programming Languages

Python I SQL I MATLAB I C I HTML

### Business

Power BI I Tableau I Excel VBA I Adobe Analytics I Google Analytics I Notion I Slack I Technical Writing

### Engineering

SolidWorks CAD I PSpice I LabView I Maple I Servo Motors I Circuit Design I Block & Process Flow Diagrams

## PROJECTS

### Finance and Partnership Executive

Queen's Leaders Engaging in Change

- Responsible for identifying companies which were suitable partnerships with the conference.
- Developed a financial budget to allocate over $5,000 towards each team portfolio.

### Automated Mechanical Dropper

Queen's AERO Design Team

- Designed the dropper in CAD and programmed electrical components using C to control servo motors and remote communication.
- Wrote testing software to validate the accuracy of the dropper onto given targets and asses the rigidity of the design.

### Rover Control and Simulation

Queen's Software Engineering

- Programmed a control system that would drive a rover through 4 waypoints on a physical outdoor environment.
- Designed a MATLAB and State-Space Programming script to simulate the rover and test output accuracy based on steering angle results.

## PUBLICATIONS

### "An Investigation of Striations Occurring in Glow Discharge Plasma"

With the Department of Physics, Engineering Physics, and Astronomy at Queen's University, *Jan 2020*