

Siddhant Khera

☎ 647-333-9899 | ✉ sid@siddhantkhera.com | 🌐 siddhantkhera.ca

EDUCATION



B.Sc Electrical Engineering
Minor in Mathematics

Graduated June 2020

Major: GPA: 3.83 / 4.00

Minor GPA: 3.60 / 4.00

Honors

Dean's List (2017, 2019)

Cum Laude (2020)

Final Year GPA: 4.0/4.0

CERTIFICATIONS

🔧 Engineering Intern (EIT):

Expected August 2021

SKILLS

Electrical

Circuit Development | Energy
Systems | PCB Design

Programming

C | \LaTeX | Python | MATLAB |
HDL | SQL

Drafting Programs

Xilinx Vivado | NI MultiSIM |
LTSpice | Power World |
EasyEDA

Data

Data Guru | Microsoft Excel |
Tableau | Supply Chain Guru

OTHER PROJECTS

- Frogger Game in C
- Optimizing Production Flows for Maximum Output Efficiency
- Market vs Baseline Transportation Cost Data Visualization in Tableau to Minimize Costs
- LED Matrix Graduation Cap
- Indoor Weather Station Integration with IoT Platforms

LINKS

🌐 [/siddhant-k](http://siddhant-k)

[in](#) [/siddhant-k](#)

EXPERIENCE

/// **ACCULOGIC** | Electrical Application Engineer

Dec 2020 – Present | Toronto, ON

Acculogic manufactures flying probe testers with joystick like functionality & provides Test Engineering solutions to customers to minimize electrical failures on PCBAs & battery arrays.

- Support presales by working directly with end-users to understand requirements and integrate custom solutions.
- Lead product implementation and ensure a smooth handoff to customers.
- Provide insightful customer feedback to product management & development teams for product upgrades and new feature requests.
- Develop test applications for testing dense PCBAs with over 500 components to deliver field-ready boards to customers.
- Triage and provide support for flying prober machines worth \$1M+.
- Understand, evaluate and develop complex benchmark projects to demonstrate testing potential to aerospace & defense customers.

RICH'S **RICH PRODUCTS** | Network Design Intern

Jan 2020 - May 2020 | Buffalo, NY

- Utilized Linear Programming optimization to maximize production and minimize costs in the US/Canada Supply Chain Network of over 25,000 SKUs using Supply Chain Guru X.
- Proactively enhanced production flows to recommend savings of over \$50K by using ETL tools and Tableau to present findings to the stakeholders.
- Blended data & visualized comparison of transportation costs across 4 providers in Tableau, proposed savings of over \$100K in the network.

UNIVERSITY AT BUFFALO | Engineering Innovation Intern

May 2019 – Jan 2020 | Buffalo, NY

- Designed and created an integration in Python for Crestron Fusion DMPS-300-C, Alexa, & RFID tags using a Raspberry Pi and Amazon Web Services (AWS) to deliver a personalized media room experience.
- Architected a scalable hardware/software integration back-end.
- Configured Amazon Lex & IBM Watson to control the media rooms via chat.
- Researched cases for developing university-scale applications for applying Artificial Intelligence/Machine Learning tech in future services and projects.
- Actively used Agile methodology to complete the project within 6 months.

PROJECTS

xylem **SOLAR ENERGY HARVESTER FOR A WATER METER**

Senior Design Project, Company Sponsored

- Developed a custom solution using solar power to harvest energy and provide up to 30 days battery storage at 5mW peak output to the load.
- Designed a custom PCB that resulted in a 73% smaller enclosure and \$500K savings for 5M units, while exceeding most original requirements set by the company by at least 100%.

PRELIMINARY DESIGN FOR ADDING A 200MW WIND FARM

- Added a 200MW Wind Farm (theoretically) to an existing system by choosing appropriate Conductor Types, Tower Designs and Right-of-Ways and reduced existing system losses by 10%, resulting in hypothetical savings of \$650K of maintaining the grid.