

Siddhant Khera

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Available to Start Immediately

EDUCATION



B.Sc in Electrical Engineering

Minor in Mathematics

June 2020 | Buffalo, NY

Major: GPA: 3.83 / 4.00

Minor GPA: 3.60 / 4.00

Honors

Dean's List (2017, 2019)

Cum Laude (2020)

Final 2 Semesters GPA: 4.0/4.0

LINKS

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CERTIFICATIONS

Engineer-in-Training (EIT):

Expected Sept 2020 (Ontario)

SKILLS

Programming

C • \LaTeX • Python • MATLAB •
HDL • SQL

Drafting Programs

Xilinx Vivado • NI MultiSIM •
LTSpice • Power World •
Fusion360 • EasyEDA

Data

Data Guru • Microsoft Excel •
Tableau • Supply Chain Guru X

Linux

Linux Admin • Docker • Git •
Shell • Bash • Nginx

Clifton Strengths Top 5

Relator, Learner, Responsibility,
Achiever, Strategic

OTHER PROJECTS

Frogger Game in C • Optimizing
Production Flows for Maximum
Output Efficiency • In-Depth
Visualization of North-American
Reefer Transportation Rates in
Tableau • LED Matrix Graduation
Cap • Indoor Weather Station
Integration with IoT Platforms

EXPERIENCE

RICH'S NETWORK DESIGN INTERN | Rich Products

Jan 2020 - Aug 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.

ENGINEERING INNOVATION INTERN | University at Buffalo

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 & maintained the full hardware/software integration back-end scalable to 50 users.
- 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.

SENIOR IT SUPERVISOR | University at Buffalo IT

April 2018 - Jan 2020 | Buffalo, NY

- Led & successfully automated data analytics for 18 million print jobs at 9 printing locations to empirically predict usage and wear on the systems.
- Mentored a team of 100+ Level 1 and Level 2 staff that provided computing & printing services and successful customer service to 30,000+ students.
- Independently managed the SQL DB, front-end & application admin support to over 300 users.
- Devised and implemented new techniques to generate & maintain weekly schedules of over 125 employees, doubling the original system capacity.

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%.

XILINX. AUDIO/VIDEO JUKEBOX VIA HDMI IN VHDL

- Programmed a Jukebox on a Zybo Z7 ARM/FPGA SoC Dev Board, with 3 songs, pause/stop functionality, 2 pause screens and 3 playing modes all selectable by the user.

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.