LAURA DOUGLAS

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EDUCATION

Drexel University
Bachelor of Science in Comuter Engineering
GPA: 3.55

ACHIEVEMENTS

• Founder's Scholarship, Drexel University, 2019 - Present
• Students Tackling Advanced Research (STAR) Program, 2020 - 2021
•Dean's List: Winter 2019-2020, Spring 2020
• Duke of Edinburgh Award, Duke of Edinburgh, 2019

ACTIVITIES

•Member, National Society of Black Engineers (Drexel chapter), 2019 - Present
•Member, Drexel University Women's Club Basketball, 2019 - Present
•Member, Drexel University Women's Club Rugby, 2019 - Present

SKILLS

•Python, C, Bash, Arduino , MATLAB
•Microsoft Office: Word, Excel, PowerPoint and Access

WORK EXPERIENCE

Kite Systems for Environmental Monitoring Research

March 2021 - September 2021

• Supported a vertically-intergated project (VIP) funded by NASA to develop kite-based systems for environmental and atmospheric monitoring.
• Improved datalogger systems with wireless communication and cloud-based services.
•Wrote code for data analysis of data retrieved from sensors to determine their accuracy and efficiency.

Students Tackling Advanced Research (STAR)

September 2020 - March 2021

• Made use of Drexel Grid SDR testbed to rapidly prototype and evaluate wireless communications systems.
• Debugged code for graduate students and converted MATLAB scripts to Python.
• Generated a visual representation of the CIR magnitude and simulated the OFDM transmitter and receiver.

Animatronic WALL-E

April 2020

• Developed code for an animatronic WALL-E using Arduino.
• Edited and tested code to ensure proper functioning of WALL-E.
•Collaborated with group members in CAD modelling using Onshape.
•Contributed to group website to track our weekly progress.

Tutor at Modeer Patshala

January 2020 - March 2020

• Supported 2nd to 5th grade children in tackling areas of difficulty in their math homework
• Assigned more practice questions after homework to ensure proper understanding of concepts from the children's homework.
• Monitored 1st to 6th grade students while they completed their homework and offered help where they needed it.

ACADEMIC BACKGROUND

•First-Year Engineering Design
•Calculus I, II, Multivariate Calculus
•Discrete Mathematics
•Design with Microcontrollers
•Fundamentals of Physics I, II, III
•Programming for Engineers I, II
•Introduction to Engineering Design & Data Analysis
•Digital Logic Design
•Electric Circuits
•Advanced Programming for Engineers
• Advanced Programming Techniques
• Computer Organization
• Probability for Engineers
• Introduction to Computer Networks
•Linear Engineering Systems
•Dynamic Engineering Systems
•Data Structures