

Willard Ryan Sullivan

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Education:

Electrical Engineering Student - University of Illinois at Urbana-Champaign

- Urbana/Champaign, IL. Expected Graduation in 2023
- Grainger College of Engineering

High School Diploma, Engineering Pathway - Quince Orchard High School

- Gaithersburg, MD. Graduated in May 2019
 - Engineering Curriculum - Project Lead the Way (PLTW)
 - GPA: 4.45 (Weighted), 3.85 (Unweighted)
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Work Experience:

System Engineer Intern - Leidos

June to August 2019. Gaithersburg, MD

- Obtained a Public Trust Clearance to fulfill position requirements
- Developed data analytics skills to determine potential problems with hardware utilization within servers that run TBFM (Time Based Flow Management) software
- Created an Excel Macro that generates graphs with given data, saving thousands of dollars
- Wrote multiple guides and procedures on my tasks to aid future hires and to maintain a documentation base

Intern- Quidient

July 2018, March to May 2019, Summer 2020. Columbia, MD

- Translated several MATLAB programs to Python to modernize the Locale Engine
 - Worked with image processing and manipulation within Python
 - Engaged in Intrinsic Imaging 3D scanning/scene reconstruction projects
 - Completed market research and other company tasks to aid in the development of new imaging systems
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Extracurricular Activities:

Illini 4000 - <https://www.illini4000.org/>, <http://www.portraitsproject.org/>

Team Bike America Rider (2019 - 2021), Logistics Officer (2020 - 2021). UIUC

- Bonded with a team of 23 students to prepare for a cross-country bike trip during the summer
- Organized events to fundraise money to donate to various cancer research and support services
- Interviewed various guests on their experiences with cancer to then share with the Portraits Project

Illini Solar Car - <https://www.illinisolarcar.com/>

Mechanical Team Member (2019 - present). OpenLab Representative (2020 - present). UIUC

- Worked with other aspiring engineers to design and construct a car that operates on solar energy
- Developed skills in Creo CAD program to design major physical components
- Extensive research to find the best materials, manufacturing techniques, and electrical components

Quince Orchard Engineering and Robotics Club - <https://qoengineering.club/>

Vice President (2018-19), 3D Printer Manager (2016-18), Member (September 2015 - May 2019).

- Collaborated with teammates on designing and constructing robots for the FIRST Tech Challenge
 - Assisted in the planning of various events and leading lower ranking officers
 - The club has won five awards in four years in the FIRST competitions due to collaborative teamwork
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Skills:

- Python, C/C++ with Arduino, HTML/Bootstrap
- Autodesk Inventor, Creo Parametric
- 3D printing and the designing of 3D printed models. Cura, PowerPrint
- Google and Microsoft Office Suites
- Robotic mechanical and electrical engineering design