

# 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:**

### **Intern- Quidient**

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

- Translated MATLAB Radiometric Calibrations to Python to modernize their Scene Reconstruction Engine
- Worked with image processing and manipulation within Python
- Engaged in generalized 3D scanning/scene reconstruction projects
- Completed market research and other company tasks to aid in the development of new imaging systems

### **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
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## **Extracurricular Activities:**

### **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

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

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

### **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, KiCad
- 3D printing and the designing of 3D printed models. Cura, PowerPrint
- Google and Microsoft Office Suites
- Robotic mechanical and electrical engineering design