

# Charlie Lertlumprasert

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## EDUCATION

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### *Virginia Tech Class of 2020*

*Undergraduate Mechanical Engineering major with Computer Science minor*

**Dean's List with Distinction**

**GPA: 4.0**

*Thomas Jefferson High School for Science and Technology Class of 2016*

**GPA: 4.46**

## WORK EXPERIENCE

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### **Microsoft – Redmond, WA (Expected)**

*May 2018 – August 2018*

*Explore Intern*

### **General Electric Aviation- Sterling, VA**

*Engineering Intern*

*May 2017 – August 2017*

- Redesigned and built mobile units to enhance visual management and expedite assembly process for Dash 8 propeller parts. The unit reduced square footage by 50%.
- Used Lean Principles and 5S to manage local storage; increased productivity by preventing material shortages.
- Led process improvement efforts, including the implementation of a new Dash 8 and C-130 blade repair process that will save company over 500 working hours and \$65,000 per year.
- Created a method to track and evaluate turnaround times at each stage of the repair and overhaul process, using Excel, which saved 400 hours per year.

### **Naval Research Laboratory**

*Chemistry Research Intern*

*June 2015 – August 2015*

- Collected and processed data on platinum's NMR lineshape using Origin 7.0, KaleidaGraph, and MATLAB.
- Developed a new method to study platinum catalysts using the nuclear magnetic resonance spectroscopy for industry applications, such as autocatalysts and fuel cell technologies.

## PROJECTS AND SKILLS

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- **Oceanography Senior Research** – Built a type of autonomous underwater vehicle (AUV) called a glider.
- **Java, MATLAB, Microsoft Excel**
- **Autodesk Inventor, Solidworks**
- **Bilingual** – Thai and English

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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### **Student Engineers' Council at Virginia Tech**

*Leadership in Engineering Conference Chair*

*February 2017 – Present*

- Organizing the Leadership in Engineering Conference for 300 students to learn leadership and professional skills from industry leaders.
- Facilitate communication among 10,000+ students, 60+ design teams, 300+ employers, and the College of Engineering by organizing events such as E-week and Engineering Expo.

### **Hypatia Living Learning Community**

*August 2016 – May 2017*

- Participate in professional, academic, community service, and social events

### **Shark Tank Racing Squad**

*Captain*

*2009 – 2016*

- Mentored younger members and was responsible for the immersion of new swimmers; led practices and competitions.
- Led team in various community service activities, including raising \$100,000+ towards Avon Walk for Breast Cancer.
- Nominated as Youth Service Group of the Year at Volunteer Fairfax Annual Awards

### **National Honor Society**

*Officer- Hours Chair*

*November 2014 – 2016*

- Leader of a society with upwards of 400 members to exemplify Scholarship, Leadership, Character, and Service.
- Coordinated novel events, such as the Ethics Forum at TJHSST, monthly service opportunities, and Service Day.

## AWARDS

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- **National Association of Engineering Student Councils Member of the Month** – Organized and ran Virginia Tech's most successful Leadership in Engineering Conference to date.
- **Presidential Scholarship Initiative** – Full scholarship for high performing first generation college students.