Charlie Lertlumprasert

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EDUCATION

Virginia Tech Class of 2020
Undergraduate Mechanical Engineering major with Computer Science minor
Dean's List with Distinction **GPA: 3.99**
Thomas Jefferson High School for Science and Technology Class of 2016 **GPA: 4.46**

EXPERIENCE

Microsoft – Redmond, WA *May 2018 – August 2018*
Explore Intern

- Deploy first-party threat detections within Azure Resource Manager, reaching over tens of thousands of customers and 100,000 subscriptions.
- Collaborate with different security and product feature teams to write specifications and threat protection plans for Azure Management Groups.
- Authored detections using Azure Kusto with integrated machine learning algorithms to improve situational awareness.

Student Engineers' Council at Virginia Tech

- 501(c)(3) nonprofit organization focused on supporting the College of Engineering
  - Organizes Engineering Expo, the second largest student-run career fair in the country with 6,000+ student attendees and 300+ employers.
  - Awards $160,000 annually to different design teams, organizations, and faculty.
  - Hosts professional events such as Leadership in Engineering Conference, E-Week, and other workshops.

Director of Finance *May 2018 – Present*

- Manage finances: operation costs and income, philanthropy efforts, and endowments totaling over $1,000,000.
- Consult with financial professionals to create budget, file taxes, manage investments, and maintain 501(c)(3) status.

Leadership in Engineering Conference (LEC) Chair *February 2017 – May 2018*

- Organized most successful LEC to date with 300+ student attendees to learn professional skills from industry leaders.
- Awarded Member of the Month by National Association of Engineering Student Councils.

General Electric Aviation- Sterling, VA
Engineering Intern *May 2017 – August 2017*

- Redesigned mobile units to enhance visual management and expedite assembly process for Dash 8 propeller parts.
- 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 turnaround times at each stage of the repair process which saved 400 hours per year.

Naval Research Laboratory – Washington DC
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

- **Oceanography Senior Research –** Built a type of autonomous underwater vehicle (AUV) called a glider.
- **Mt. Rogers: Head Mounted Displays for Modern Workplace –** high quality virtual monitors in head worn display
- **Java, MATLAB, Microsoft Excel, Autodesk Inventor, Solidworks, Azure Kusto**
- **Bilingual –** Thai and English

AWARDS

- **Presidential Scholarship Initiative –** Full scholarship for high performing first generation college students.