

Charlie Lertlumprasert

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Education

Virginia Tech Class of 2020
Mechanical Engineering Major
Computer Science Minor
GPA: 3.99

Thomas Jefferson High School for Science and Technology
Class of 2016
GPA: 4.46

Awards

Presidential Scholarship Initiative
Full scholarship for high performing first generation college students

National Association of Engineering Student Councils
Member of the Month award in 2018

Projects & Skills

Lower body Exoskeleton
Electronics and controls subteam

Autonomous Underwater Vehicle
Designed and prototyped the hull of a glider

Bilingual
Thai and English

Technology
Java, MATLAB, Python, C
Autodesk Inventor
Azure Kusto
Unity
ARKit

Experience

Microsoft

Program Manager Intern | M365 FX | May '19 - Aug '19

- Led usability testing, design, engineering, and engagement prediction efforts to integrate Microsoft365 services in core experience of a confidential project
- Identified target customer needs and business opportunities, defined user experience and KPIs, and managed cross-team dependencies

Explorer Intern | Cloud + AI Security | May '18 - Aug '18

- Authored and deployed threat detections using Azure Kusto, protecting 100,000+ subscriptions from privilege escalation attacks
- Collaborated with product feature team, security analysts, and Red Team engineers to decrease false-positive alerts

Technology-enhanced Learning and Online Strategies

Student Innovation Fellow | Aug '18 - Dec '18

- Created an augmented reality application using Unity and ARKit in collaboration with Mechanical Design professor to help students understand stress analysis concepts by illustrating 3D animations of how loads affect structures

General Electric Aviation

Engineering Intern | May '17 - Aug '17

- Led process improvement efforts, including implementation of new Dash 8 and C-130 blade repair process, saving 500+ work hours and \$65,000/year
- Created new method to track turnaround times, saving 400 hours/year

Naval Research Laboratory

Chemistry Research Intern | Jun '15 - Aug '15

- Developed new method to study platinum catalysts using the nuclear magnetic resonance (NMR) spectroscopy
- Collected and processed data on platinum's lineshape using Origin 7.0, KaleidaGraph, and MATLAB

Leadership

Student Engineers' Council (SEC) at Virginia Tech

Vice President | Mar '19 - Present

- Manage and provide guidance to 14 executive board members and 300+ general assembly members for planning and execution of SEC operations, investments, and events
- Events include Engineering Expo, with 300+ companies and 6,000 students

Director of Finance | Mar '18 - Mar '19

- Led financial decisions on and managed operation costs, philanthropy efforts, and endowments totaling over \$2,000,000
- Awarded \$160,000 to design teams, engineering orgs, and research faculty

Leadership in Engineering Conference (LEC) Chair | Feb '17 - Mar '18

- Organized the most well-attended LEC with 300+ attendees to learn professional skills from industry leaders