

Rahul Emani

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EDUCATION:

The Pennsylvania State University

University Park, PA

- **Bachelor of Science in Cybersecurity Analytics and Operations**

May 2022

Schreyer Honors College

Dean's List: Spring 2019, Summer 2019

Cumulative GPA: 3.69/4.00

CompTIA Security+ Certification

SKILLS:

Languages: Java, C, C++, Matlab, Python, SQL, HTML, PHP, ROBOTC

Operating Systems: Ubuntu, Windows XP/7/8/10, Kali Linux, Linux, Fedora, CentOS

Applications: Eclipse, Microsoft Office, Netbeans, Microsoft SQL Server Management Studio

Certifications: CompTIA Security+, FAA Part 107 Drone Pilot, FAA Student Pilot

EXPERIENCE:

Rajant Systems Engineering Intern

May 2019-August 2019

- Created a DTMF tone broadcast device which cuts power to robotic devices during emergencies
- Created device monitoring building power with power outage notification
- Worked on embedded Linux boards
- Worked with robotic devices and flew drones to showcase applications of Rajant's technology
- Built networking skills working with Rajant's BreadCrumb devices

Teaching and Learning with Technology

March 2019

- Collaborated with Drs Hills and Gamrat on incorporating Raspberry Pis in classroom environments
- The PI Day Event and "For the Glory" events were referenced to show the effectiveness of incorporating technology in classrooms

PI Day Event

March 2019

- Attendees were able to participate in a hands-on lab, and this event was used as a recruiting event for the EMTECH club, an organization focused the Raspberry Pi

Academic Advising "For the Glory" Event

January 2019

- Ran a Raspberry Pi lab exercise where students created their own Alexa device from scratch

Research Work

September 2018-Present

- Installing Alexa software onto a Raspberry Pi which became platform for interactive recruiting event for the college
- Researching use of a Raspberry Pi as an economical, and effective platform to run a smart home
- Researching use of Raspberry Pi in IT education
- Working with Penn State faculty members Dr. Edward Glantz and Dr. Michael Hills
- Twitter analytics project using Python with Drs Giacobe, Kohler and Weirman

Raspberry Pi Garage Door Opener

June 2014

- Created a Raspberry Pi which can control a garage from anywhere and monitor whether it is opened or closed
- This project inspired my research work with Dr. Mike Hills and Dr. Edward Glantz at Penn State

CLUBS & ACTIVITIES:

College of IST Peer Tutor	August 2019-Present
College of IST Learning Assistant SRA 221 <ul style="list-style-type: none">• Learning Assistant for Penn State's information security course	August 2019-Present
Collegiate Penetration Testing Competition <ul style="list-style-type: none">• Practicing red team hacking skills through vulnerability exploitation	January 2019-Present
Collegiate Cyber Defense Team <ul style="list-style-type: none">• Represented Penn State as a member of the CCDC (Collegiate Cyber Defense Competition) team	December 2018-Present
EMTECH Club <ul style="list-style-type: none">• Director of IOT and President for a brand-new club at Penn State• This club encourages the use of IOT devices for problem solving and encourages members to pursue creative projects	October 2018-Present
Competitive Cybersecurity Organization (CCSO) <ul style="list-style-type: none">• Current Secretary• Participating in a club which specializes in broad hacking skills	August 2018-Present

HONORS & AWARDS:

ACM's SIGITE <ul style="list-style-type: none">• Published a poster about using the Raspberry Pi in IT Education	October 2019
National Cyberleague <ul style="list-style-type: none">• Placed 141st out of 3324• Member of the "Cyberlions" Penn State team and placed 36th out of 368	November 2018
Rensselaer Medalist – Earned from Phoenixville Area High School <ul style="list-style-type: none">• Awarded to strongest mathematics student at a high school	March 2017
National Honor Society	2017-June 2018