THANH PHAM

Houston, TX | (281) 745-8081 | thanhpham07.work@gmail.com
www.linkedin.com/in/thanh-pham23

EDUCATION

University of Houston, Houston, Texas **Expected Graduation: Spring 2027**

- Bachelor of Science in Computer Engineering. GPA: 3.5
- Related Coursework: Programming and Data Structures (C++) | Problem Solving for Engineers | Circuits I

TECHNICAL SKILLS

Programming Language: C++ (Advanced) | C (Intermediate) | Python (Novice) | MATLAB (Novice)
Software: Fusion 360 | Siemens NX | Arduino IDE | Visual Studio | Eclipse | GitHub | Octoprint
Competencies: Circuit Debug | Component Design | Performance Testing & Analysis | Software Development

EXPERIENCES

NASA L'SPACE Mission Concept Academy **May 2024 – August 2024**

- Obtained CAD designing experience with Siemens NX
- Primary Electrical Engineer and Secondary Computer Hardware Engineer in a 14-student team
- Produced and presented a Preliminary Design Review for a rover trip to explore the Lunar south pole

NASA Minority University Research and Education Project (MUREP) January 2024 – April 2024
Innovation and Tech Transfer Idea Competition (MITTIC)

- Delivered a technical paper on the idea of using unmanned aerial vehicles to monitor and stop wildfires
- Designed a 3D model prototype using computer-aided design software Fusion 360
- Supported concept of operation and operating simulation of the unmanned aerial vehicle
- Presented at NASA Johnson Space Center as one of 11 finalist teams

Traffic lights System **December 2023 – January 2024**

- Designed circuit to create a mini scale of a traffic management system using Arduino Uno 3 Microcontroller
- Implemented Arduino IDE and troubleshooted IoT platform to achieve best optimal design
- Reduced original time delay of each LED switching process by 1/1000 ratio

3D printer remote control system **September 2023 – January 2024**

- Installed Raspberry Pi 4b as a 3D printer remote control using a Python based server
- Designed a system to controlled fan speed and integrated a camera with a Python-based server
- Achieved a reduction in power consumption and filament waste by up to 50%

Line Follower Robot **October 2023 – November 2023**

- Assembled custom circuit interface using Arduino Uno 3 board and motor controller
- Operated robot at maximum motor speed (255) with a 0% failure rate on the track
- Developed a comprehensive guideline in GitHub outlining best practices and procedures for project development

LEADERSHIP & ACTIVITIES

Society of Hispanic Professional Engineers **August 2023 – Present**

- Participated in general meeting and engaged with fellow engineering students, staff, and faculty

Ping Pong Ball Final Project **September 2023 – December 2023**

Project Manager

- Assisted in building a basic launcher out of recyclables and struck two targets with 62.5% accuracy
- Achieved the most cost-efficient design costing less than $10