

Sunghyun Park

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EDUCATION

The Pennsylvania State University | College of the Engineering
Bachelor of Science in Mechanical Engineering

University Park, PA
Class August 2023
GPA: 3.83/4.00
Dean's List: All semesters

SKILLS AND HONORS

- **Engineering Skill:** Solid Works, Inventor, AutoCAD
- **Programming Skills:** Words, Excel, PowerPoints
- **Languages:** Fluent in English and Korean

PROJECT

PennEngineering Capstone Project- [Link](#)

University Park, PA
January 2023 - May 2023

- Contributed as a treasurer and worked with a team of 5 on a Capstone Project, *High Speed Signaled Routing Device*. The goal of our project was to design a mechanical device that controls the path of metal fasteners manufactured on cold heading machines; designed prototypes and tested functionality by using pneumatic methods.
- Prepared a final report that outlined objectives, implementations, testing outcomes and conclusions, and successfully presented it at the Bryce Jordan Center Showcase.

UAV(Unmanned Autonomous Vehicle) Project- [Link](#)

University Park, PA
January 2023 -May 2023

- Collaborated with a team of 3 on Autonomous Vehicle project. The goal was to program the robot to travel from location 1 to location 2 autonomously using the shortest distance and following the traffic sign.
- Developed UAV using image processing techniques, robot control, camera calibration, and position detection with AprilTag.

RELATED EXPERIENCE

Hyundai Engineering America Inc.
Mechanical Assistant Engineer

Kingston, AG
Oct. 2023 - Current

- Supervised the comprehensive construction and installation of mechanical services for the EV Battery Project, including piping, HVAC (heating, ventilation, and air conditioning), cabling, and automatic control systems. Managed and coordinated detailed aspects to ensure accurate and efficient system deployment.
- Ensured that all mechanical systems strictly adhered to the latest industry standards and project specifications.
- Collaborated with multidisciplinary teams, including electrical and plumbing professionals, to seamlessly integrate mechanical services within the Assembly Building. Facilitated effective communication and coordination to align with project goals.
- Conducted regular site inspections and quality control checks to maintain high standards of workmanship. Monitored project timelines closely to ensure timely completion and adherence to project schedules.

Internship with Company MOT(Mecca Operation Technology)
Intern

Yangsan, South Korea
May. 2022 - Aug. 2022

- Worked with a sales team to learn the company's core values and analyze business processes, focused on manufacturing.
- Developed skills in 3D modeling techniques (Inventor, AutoCAD) to manufacture EV batteries.
- Assisted translation organized meetings for Hungarian trainees during their visit to MOT.

Food Server
Part-time

University Park, PA
Oct. 2022 - Feb 2023

- Managed customer requests and complaints, escalating issues to manager when necessary.
- Prepared food and services 6 hours every week.

LEADERSHIP EXPERIENCE

Tau Beta Pi

Member of Engineering Honor Society

University Park, PA
May 2020 - Current

- Maintained a minimum GPA of 3.75 for membership.
- Gained leadership by completing 12 hours of chapter activities and volunteer work.

Korean Student for Christ (KSFC)

Preliminary Leader | Sunday School Teacher | Event Manager

University Park, PA
Jan. 2019 - May. 2023

- Assisted children in learning to read and learn Bible teachings to help them gain an understanding of the Christian faith.
- Planned and carried out all events (retreat, recreation, and welcome) that took place at the church.