Apostolos Apostolou

Mechanical Engineering Student - University of Cyprus

Mechanical Engineering student looking to gain experience in the field. Motivated and committed to fully assisting and supporting lead engineers in completing various tasks.

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Nicosia, Cyprus



9.15/10

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WORK EXPERIENCE

Engineering Research Intern

Texas A&M University - Energy Efficiency Control Optimization Laboratory

05/2024 - 07/2024 Texas, USA

Exprerience

- Designed and implemented a custom low-cost yet powerful Data Acquisition Module (DAQ) using Raspberry Pi, 16-bit ADC,
 Python, and a 3D-printed enclosure for measuring critical parameters in compressed air systems.
- Developed all electronic circuits, software, and hardware independently.
- Features: data acquisition, local and cloud storage, real-time online visualization.
- Learned basics of compressed air systems and research processes.

Research Intern

KIOS Research and Innovation Center of Excellence

07/2023 - 07/2023 Nicosia, Cyprus

Experience

 Implemented a linear programming optimization algorithm using both MATLAB and Python for minimizing electricity cost by charging/discharging the PV system's battery storage at optimal

- Implemented cost calculation functions using Python, and GUI improvements for a web dashboard that is used for calculating the electricity cost of a house in different cases (no PVs, PVs, battery storage, etc).
- Learned about the electricity grid, AC power, renewable energy sources, and how to improve them by integrating smart technologies.

Engineering Intern

NOVATEX Solutions

05/2023 - 06/2023 Nicosia, Cyprus

Experience

- Created an earthquake detection system using an accelerometer, ESP32, MQTT, Infulx-DB, Node-Red, and Grafana.
- Worked with LoRa/LoRaWAN(TTN) and established communication between different devices using encrypted data.
- Worked with Rotrics Robot Arm, created an instructions manual for it, and learned the basics of robotic arms.

Mechanical Design Engineer Intern

CYPET Technologies

06/2022 - 08/2022 Nicosia, Cyprus

Experience

- Designed complex parts and machines using Solidworks.
- Designed/ran injection molding simulations using Moldex3D and analyzed the results.
- Created **2D Drawing**s (for assembly purposes) and **User Manuals**.
- Learned about injection/stretch blow molding and the basic principles of designing for manufacturing (DFM) and assembly.

SKILLS

CAD/CAM (Solidworks/AutoCad/Fusion360)

Programming (Arduino/C++/Python)

Electronics (PCB Design)

Mechanical Design

IoT & Robotics

ractical Skills (Hand/Power tools etc)

IT Skills (MS Office)

EDUCATION

Bachelor of Science: Mechanical and Manufacturing Engineering

University of Cyprus - Nicosia

09/2021 - Present

Achievements

 Awarded for my 1st, 2nd and 3rd Year academic performance.

High School Diploma

Palaiometocho Lyceum - Nicosia

09/2017 - 06/2020

Final year average grade: 18.89/20

Course

Advanced Mathematics,
 Physics, Computer Science,
 Design and technology

HONORS & OTHER ACHIEVEMENTS

Completed my mandatory military service in Cyprus (14 months) at Technical Corps (2020-21).

Competed in national robotics competition - Line following (July 2023).

"Excellence" achievement received for all the years of secondary education.

LANGUAGES

Greek
Native or Bilinaual Proficiency

English

Full Professional Proficiency