

MAHMOUD OSMAN

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PROFESSIONAL EXPERIENCE

UNIVERSITY OF PÉCS

Pécs, Hungary

Specialized Lecturer, Department of Automation

February 2023-Present

- Lecturing, syllabus preparation and exam grading of bachelor level theoretical and lab courses.
- Evaluation of Bachelor Theses as opponent.
- Courses: Microcomputers, Communication Engineering, Project laboratory, Design of Microelectronic Systems, Introduction to Electrical Engineering and Electronics, and Digital Systems.

EDUCATION

UNIVERSITY OF PÉCS

Pécs, Hungary

Bachelor of Science in Electrical Engineering

January 2023

Specialization: Embedded Microcomputer Systems

Thesis Topic: Comfort Data Acquisition Device Based on ESP32 Microcontroller

ALI BIN JASSIM SECONDARY SCHOOL

Doha, Qatar

Highschool Diploma

June 2019

Percentage: 95%

AWARDS AND HONORS

- 2nd Place in National Scientific Student Conference, ELTE, 2023
- 1st Place in Faculty's Scientific and Art Student's Conference PTE, 2022
- Huawei SEEDs Scholarship of Excellence Pécs, 2022

RESEARCH EXPERIENCE

UNIVERSITY OF PÉCS

Pécs, Hungary

Research team: Parameterized Comfort in Physical Spaces

November 2022-present

Researched and implemented hardware and software design solutions for an IoT device for office environment. This includes selection of sensors and actuators, microcontroller programming in Embedded C and RTOS, design of custom PCBs using CAD tools.

Research team: National Laboratory of Cooperative Technology

March 2023-present

Researching the design and build of exoskeleton arm controlled by pneumatic muscle and PLC with the implementation of microcontroller-controlled sensors and actuators.

TECHNICAL SKILLS

Hardware and PCB design using CAD, software design using Embedded C and RTOS, GIT, Makefile, Linux, Visual Studio Code.

POSTERS AND PRESENTATIONS

- Poster presentation at the International Conference of Biomedical Engineering and Innovation (ICBEI), Pécs, HU (2022)
- Presentation titled “Mimosa, personal comfort meter device” at MIK Partners Day (2023)

SOFT SKILLS

- General: Teaching, Public Speaking, Teamwork
- Languages: Arabic (Native), English (Fluent), German (Advanced beginner, Goethe A2 certificate), Hungarian (Advanced Beginner)