

Moayad Rajjoub

ELECTRONIC ENGINEER



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PROFESSIONAL SUMMARY

Electronic engineer with almost 3 years experience. Excellent communication and time management skills. Reliable and strives to go above and beyond to deliver a project that meets and exceeds expectations of the client. Excellent team player.

EXPERIENCES

- ❖ **(October) 2022- Present** / Project Assistant at Material Physics Laboratory in Gebze Technical University, Turkey. Supervised by Dr. Mahmut Akşit.
 - Lab researcher in a collaborated project with TEI on polycarbosilane synthesis, Optimization to the procedures of polycarbosilane production, preparation the experimental procedure of high-temperature and high-pressure reactor to synthesis conditions, monitoring temperature and pressure data during the experiment.
 - Optimizing the prebuild three axis machine structure, with its GUI written user interface, adding a substrate rolling function and making the final tests.
- ❖ **(August - September) 2022** / Internship at TÜBİTAK BİLGEM TÜTEL. The Scientific and Technological Research Council of Türkiye (TÜBİTAK).
 - One month internship at Integrated Circuits Design and Training Laboratory (TÜTEL). The internship program based on accomplishing 8 different assignments using digital programming language (Verilog), such as Up/Down Counter, Ripple Carry Adder, serial adder, Hardware Multiplier, Parameterized First In First Out (FIFO), and Universal Asynchronous Receiver-Transmitter (UART), and test these circuits using FPGA.
- ❖ **(October) 2021 – (July) 2022** / Internship at Material Physics Laboratory in Gebze Technical University, Turkey. Supervised by Dr. Mahmut Akşit.
 - Resume the work on three axis machine structure and take care of the electric and electronic part of it, complete the whole GUI user interface and automation system.
 - Assist one of our lab researchers in a collaborated project with TEI on polycarbosilane (PCS) synthesis, preparation the experimental procedure of high-temperature and high-pressure reactor to synthesis conditions, monitoring temperature and pressure data during the experiment.
- ❖ **(July - September) 2021** / Internship by ERASMUS program at High Voltage Test & Research Center, AMBER, Spain. Supervised by Dr. Juan Manuel Moreno Eguílaz.
 - My task was to find high quality, efficient, accurate and high pressure resistible ultrasonic sensor to detect Corona Discharge in its very biggening stages.
 - Design a suitable circuit to test the sensor on LTspice and implement it, and test it using an ultrasonic light, and read the output from an Oscilloscope.

- ❖ **(February - June) 2021** / Internship at Material Physics Laboratory in Gebze Technical University, Turkey. Supervised by Dr. Mahmut Akşit.
 - Building a new designed three axis machine structure and take care of the electric and electronic part of it, so we created an automation system using multiple sensors and main Mega Arduino board to implement a specific and accurate chemical experiment.
 - I also had the chance to learn how to use different type of cutting machines such as Universal Milling, Manual Lathes, and Horizontal Sawing, and I had a limited experience of using SOLIDWORKS, MACH3 programs and writing GCode all in order to help in other projects at the lab like building an under vacuum thermoelectric measuring system.

PROJECTS

- ❖ Fully autonomous three-axis system with GUI written user interface and PID controller to implement an accurate, temperature and pressure controlled specific chemical method.
- ❖ A voice recorder with audio return feature, using STM32 Nucleo-32 microprocessor. For the Microprocessor lecture at the university.
- ❖ Reducing the noise in a talk where the project aims to obtain a noise-free audio signal at the output as much as possible by reducing the noise in the noise-added audio signal. For the Digital Signal Processing lecture at the university.

COURSES

■ Technical Programs

- ❖ TEI - Aviation Engines School 2022 (TEI Havacılık Motorları Okulu).
- ❖ ACCENTURE - Embedded Linux from Scratch.
- ❖ EGEMSOFT - Software Test Engineering Training (Certificated).

■ Social Programs

- ❖ Who is Who? - Human recognition skills and quality communication.
- ❖ Mastery in Relationships - The Experiential Design Teaching Mastery Program in Relationships (Certificated).
- ❖ Success Psychology - The Experiential Design Teaching Success Psychology Seminar (Certificated).

EDUCATION

Oct. 2022 – (Expected Graduation) June 2023 / Master's Degree of Science:
Information Systems (Ma) (Non-Thesis) (Distance Ed) at Sakarya University, Turkey.

Sep. 2017 – Sep. 2022 / Bachelor's Degree:

Graduated as an Electronic Engineer from Gebze Technical University, Turkey, with GPA **2.63** of 4.

2013 - 2016 / High School Diploma:

Finished high school with honors scoring **98.5%**.

SKILLS

- ❖ Good knowledge in Math Works MATLAB, C/C++, Arduino, NI Multisim, LTspice, Microsoft office (Word, PowerPoint, Excel), Intel Quartus Prime, Xilinx Vivado, Field-Programmable Gate Arrays (FPGA), Verilog.
- ❖ Acceptable knowledge of Python, GCode, Mach3, and SOLIDWORKS, LigtBurn.
- ❖ Excellent complex problem-solving skills for using logic and reasoning to identify problems, strengths, and weaknesses in electronic engineering projects and using them to create and implement plans for a better project.
- ❖ Organized and detail-oriented to ensure excellent time management and a clean and safe work environment.

LANGUGES

English (Fluent)

Turkish (Fluent)

Arabic (Fluent)

HOBBIES AND INTERESTS

I like to spend the time with friends, and I love the idea of meeting new people and learning about their experiences. It is enjoyable for me spending the time doing some sports like swimming, playing volleyball and tennis table. Animals is one of my favorite things, so I own a cat. I am also interested in bodybuilding, so I try to keep going to the gym.