Ziad Fouad Zok

Mechatronics & Automation Engineer

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Career Summary

Mechatronics Engineer with a Bachelor of Engineering degree from the ABET-accredited program at Rafik Hariri University. Possesses expertise in mechanics, PLC, electronics, control systems, programming and motion control.

Education

Rafik Hariri University   **Mechref, Lebanon**
Bachelor of Engineering in Mechatronics Engineering   August 2021 – April 2025

Professional Experience

Jahani & Associates   **NYC, USA**
Business Development Representative   May 2022 – Remotely
- Executed effective strategies to generate leads, engage prospects, and convert them into clients.
- Achieved top performer status for 4 consecutive months, contributing to a 35% growth in overall sales
- Conducted 100 new cold calls and 200 follow-up calls daily, identifying and pursuing over 600 business opportunities monthly.

Bright Champs   **Karnataka, India**
Robotics and Coding Instructor   January 2024 – March 2024
- Instructed STEM coding and robotics to 60 international students aged 3 to 16 in one-on-one classes.
- Guided 250 hands-on projects per curriculum using Quarky and Arduino.

Matrix Energy and Automation   **Khaldeh, Lebanon**
Automation Engineering Intern   December 2024 – February 2025
- Designed and programmed PLC systems including Siemens S7-300, S7-1200.
- Implemented communication protocols between PLCs and HMI using Profibus.
- Developed and programmed a Sorting Machine and a Pick and Place Robotic Arm.
- Working on a SIMATIC PC to design and program a PID machine.
- Working on a 2D servo in a motion control machine connecting to an HMI.

AECENAR   **Tripoli, Lebanon**
Lab Intern   May 2024 – July 2024
- Acquired a solid foundation in STM32 microcontroller hardware and software (STM32CubeIDE), including programming and troubleshooting.
- Gained an understanding of PCB design fundamentals by studying the operation of various PCB boards.
- Learned about different communication protocols, including Serial, I2C, and SPI, and explored their integration within system design.

Electro Hamed Institution   **Tripoli, Lebanon**
Generators Intern   July 2023 – November 2023
- Acquired comprehensive knowledge of generator systems, while mastering troubleshooting, and maintenance protocols.
- Engaged in hands-on training exercises focusing on generator operation and control systems.

Projects

Smart Baby Crib | Final year Project   **April 2025 - Present**
• Designed and constructed a smart baby crib.
• Implement several algorithms to check the temperature, heartbeat, ambient temperature of the room, swing the crib and give a full control from a screen and a mobile app for the parent.

Smart Water Cup | Microcontroller's Project   **December 2022 - Present**
• Designed and constructed a smart cup capable of measuring the quantity of water drunk during a day and its temperature.
• Implement several algorithms to check the water temperature before drinking to see if it is very hot or cold.
• Weld all the electronic components on a PCB board to make the circuit smaller as we can, so the cup will be portable.

Coffee machine| MSD's Project   **April 2024 - Present**
• Designed and constructed a coffee machine capable of making a cup of coffee by itself.
• Implement three types of cups for the coffee and several types of coffee.

Electro/Hydraulic Elevator   **August 2024 - Present**
• Designed a two-flour building's elevator using Festo FLUIDSIM-H
• This elevator starts slowly than accelerate for a specific distance then deaccelerate.

Motion Control Machine using PLC-1200   **February 2025- Present**
• Working on a 2D servo motor connected to an ASDA drive
• Learn how to program his parameter first using ASDA software then using Tia Portal
• Connect the 1200-PLC on an HMI
• This HMI contain all the command that we can control the drive with.

Certifications

- Communication skills, computer latency and entrepreneurship Development

- PLC SCIEMENNS Logo 8, S7-300 & S7-1200 & SIMANTIC PC

- Python Data Structure / Programming for everybody

- Introduction to the Internet of Things and Embedded Systems

- Industrial Hydraulics Control simulation using Festo FLUIDSIM-H art systems program

- Industrial Pneumatics Control simulation using Festo FLUIDSIM-P art systems program

- Mechatronics Control simulation| Electro-Pneumatics / Electro Hydraulics using Festo FLUIDSIM-P/H art systems program

- Siemens Basic Level

- Siemens Pro Level

- Siemens Advanced Level

Skills & Languages

Programming Languages: C++, MATLAB, Python, Ladder Programming, Blocks Programming.
Software: TIA Portal, AutoCAD, SolidWorks, Arduino, Micro-Cap, FPGA, Primavera, Microsoft Office, LOGO V8, ASAD Soft, MCT-10.
Languages: Arabic: Native • English: Fluent • French: Proficient
Soft Skills: Teamwork, Communication, Problem-solving, Leadership