Ghina Debian

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I am a Mechatronics student at the University of Balamand with a fascination for how things work. Interested in electronics, robotics, embedded systems, AI/ML, and programming.

EDUCATION

University of Balamand — *Aley, Lebanon*
BTech – Mechatronics | GPA 3.9 — *Sep 22 – Present*
- Secretary of Research and Innovation Club
- Assisted peers with course material and assignments.
- Consistently listed on Dean's Honor List

Full Stack Web Development | 4 Finance Training Center — *Nov 23 – Present*

Design with KiCad | Udemy — *July 24 – Aug 24*
- Worked on multiple PCB projects starting from schematic design to PCB design

STM32 Hardware Design With KiCAD v6 | Udemy — *June 24*
- Designed an STM32-based PCB prototype from scratch in KiCad - all the way from concept to manufacturing.

CISCO1: Introduction to Networks | CISCO Networking Academy — *Jan 24 – May 24*

Image Annotation | DOT Lebanon — *May 23 – July 23*

AutoCAD 2D | Online Course — *Feb 22 – Apr 22*
- Designed a 2D apartment plan

Python for Everybody | freeCodeCamp.org — *July 21 – Nov 21*

EXPERIENCE

Ain Wzein Medical Village — Chouf, Lebanon
Maintenance and Biomedical Engineering department – training — *Aug 24 – Sep 24*
- Worked with complex electrical infrastructure and equipment critical to the operation of a hospital and specific to its high standards of safety.
- Participated in preventative and corrective maintenance procedures on electrical equipment and biomedical machines, developing the mental approach required to solve technical issues that arise in work environments.
- Gained hands-on experience with a wide variety of biomedical machines, acquiring a broader perception of the possibilities for the integration of electronics, electrical and mechanical engineering, and embedded systems within a machine.

Yard for Wood Processing and Trading — *Chouf, Lebanon*
CNC machining – training — *July 23 – June 23*
- Operated multiple CNC machines including CNC laser machine.

- Used CAD/CAM software, namely AutoCAD and ArtCAM, to create and prepare wood designs for CNC manufacturing.
- Learned how to manage tasks in a fast-paced industrial environment.

SKILLS & OTHER

Hard Skills: Embedded systems programming, PLC programming, Repair

Programming Languages: C, C++, C#, Python, VHDL, HTML, CSS, JavaScript, Ladder logic, SFC

Software Experience: Microsoft Office, Visual Studios, Visual Studio Code, AutoCAD, Proteus, MATLAB, KiCAD

Hardware Experience: Arduino

Frameworks: React

Languages: Arabic (*Native*), English (Fluent)

Projects:

- Created a 2D game with C#, incorporating graphics animation and game physics
- Reverse engineered and analysed the electronic circuit of a car battery charger.
- Designed a smart greenhouse system using PIC microcontroller and various sensors.
- Developed a robot vehicle with autonomous line-following, obstacle-avoidance, and tunnel detection features using Arduino microcontroller.