

Bilal Awad

Master Student in Electric and Electronics Engineer

Current address (10/2023 – present): Corso Francia 261, Torino, 10139 TO, Italy

Male | Born in Lala Lebanon, 1803, on 15/09/2001 | +39 3444795617

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Education:

- Master's Degree: **Electronic Engineering** (Final Grade 110/110) at **Politecnico di Torino** (2023-2025).
- Bachelor of Engineering: **Electric and Electronics Engineering** (Average 81/100) at **Lebanese University Faculty of Engineering III**. (2019 -2025)
It is a Double Degree (**Bilateral Agreement**) program between **Politecnico di Torino** and **Lebanese University**.
- Baccalaureate in **Life Sciences** (Average 17/20) at **Lala Public High School** (2019)
- Courses Highlights: Digital Systems, PLC, Signals & Systems, Power Electronics, Renewable Energy, Control Systems (Automation), Microprocessor, Electronics, Robotics.
- Projects Done: Power Production and Distribution, Robot Moves in the Shortest path, Solar Sunlight Tracker, Solar Pump, Wall Climbing Robot Controlled Remotely, Self-Balancing Robot, Snake and Apples (FPGA).

Experience:

Internship with UNDP in Renewable Energy: (06-2022 – 08-2022)

- Constructing a solar water heating system in residential applications
- Sizing panels-inverters-batteries.
- Mount the panels on a convenient mounting structure choosing the right BOS.
- Solar Pump Project: I applied what I learned on my village's central water pump.
- Career Readiness Program: learning soft skills that help us in my future career.

Arduino Designer (self-employment) (2022-present)

- Robot Moves in the Shortest path using different network algorithms (Dijkstra for e.g.).
- Self-Balancing Robot: relies on the PID control loop.
- Solar Sunlight Tracker: depends on 4 LDR's so it can move in 2 axis.
- Wall Climbing Robot Controlled Remotely: Depends on 2 Arduino boards one transmits the angle of the hand and the other control the brushless motor connected to propeller.

Private Tutor (2019-present)

Skills:

FPGA (Cyclone V) • Quartus • ModelSim • Arduino • MATLAB • Simulink • HelioScope • Python • C • C++ • Proteus • AutoCAD • Tinkercad • PLC • Control Systems • Electrical Systems • Automation • Microsoft Word • Excel • PowerPoint.

Researches:

Thesis of title “**Implementation of Neural Networks using FPGA with High Level Synthesis**” (2025)

Languages:

English: Fluent, **Arabic:** Native, **French:** Amateur, **Italian:** Amateur.

Accomplishments:

- Ranked First in my college in “Electric and Electronics Engineering -Power Automation and Chosen to continue the double degree program in PoliTO.
- Ranked 12 on Lebanon in “Lebanese Physics Olympiad 2018-DOPS-MEHE”.
- Black Belt in Taekwondo.