YASSMINE EL FADL
Electrical & Computer Engineer

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UAE Resident

EDUCATION

June 2025	**Bachelor of Engineering in Electrical and Computer Engineering, with Distinction** American University of Beirut (AUB), Lebanon

EXPERIENCE

Jun. - Aug. 2024	**Electrical Engineering Intern**, Ecotherm, Abu Dhabi, UAE • *Gained hands-on experience in electrical site work by reviewing shop drawings and ensuring ADDC compliance.* • *Used AutoCAD and Excel to quantify lighting and power materials, enhancing planning and estimation skills.* • *Attended on-site inspections to monitor project progress and gained exposure to electrical systems.*
Apr. - May 2025	**Volunteer - Construction Team,** AUB Outdoors, Beirut, Lebanon • *Supported on-site construction setup and logistics for AUB's largest student-led event.*
Oct. 2024	**Volunteer - UAE Stands with Lebanon** • *Assisted in logistical coordination and relief efforts.*

PROJECTS

Sep. 2024 - Apr. 2025	**State Estimation Tracker**, AUB • *Built a hybrid state estimator in MATLAB combining PMU and SCADA data using Weighted Least Squares.* • *Applied Chi-square and LNRT techniques for bad data detection on IEEE bus systems.*
Oct. - Dec. 2024	**PV Power System**, AUB • *Designed and analyzed a photovoltaic (PV) power supply system for an office building using HOMER,* optimizing for sustainability and cost-efficiency.
Mar. - Apr. 2024	**Electrostatic Posture Detector**, AUB • *Developed a posture detection system using sensors, through sensor calibration, signal processing, and hardware-software integration.*
Jan. - Apr. 2024	**Object Tracking with YOLOv5**, AUB • *Implemented object tracking in Google Colab using YOLOv5, using skills in computer vision, deep learning, and real-time detection.*
Sep. - Nov. 2023	**DC Motor Position Control**, AUB • *Modeled and designed a DC motor position control system for steer-by-wire applications using Simulink.*

EXPERIENCE

Sep. 2023 - May 2025	**Students for Sustainability and Energy for All (SSEA)**, AUB Chapter • *Team leader – Outreach Team* **Institute of Electrical and Electronics Engineers (IEEE)**, AUB Chapter • *Sub-cabinet member - Social Media Team*

SKILLS & INTERESTS

Software & Tools	Office 365 (Word, Excel, PowerPoint), MATLAB, PowerWorld, VS code (Python & C++)*,* LabVIEW, Arduino, AutoCAD, Google Colab
Languages	Proficient in English, Fluent in Arabic