

# Eugenie Ghanimeh

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## PROFILE SUMMARY

*I'm a hardworking and highly motivated fresh Mechanical Engineer and Energy Consultant, with experience in Energy Efficiency and Solar project. I'm passionate about the energy field and the challenges associated with providing green and sustainable energy. I aspire to be a technical consultant where I apply all my knowledge and experience in designing and implementing financially viable and technically sustainable solutions.*

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## EDUCATION

**Lebanese American University (LAU),** Byblos, Lebanon August 2017 – December 2021

**Bachelor of Engineering** in Mechanical Engineering

**CGPA:** 3.83/4.0 – High Distinction Student

**Cadmous College,** Tyre, Lebanon

September 2001 – June 2016

**Lebanese Baccalaureate** in Life Sciences

**Grade:** 18/20

**Ranked 3<sup>rd</sup>** on South Lebanon Governorate in the Lebanese Official Exams

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## EXPERIENCE

**ArkEnergy,** Dubai, United Arab Emirates January 2022 - Present

**Energy Consultant**

- Manage and supervise the design, implementation, and commissioning of energy efficiency and solar energy projects
- Perform Energy Audits and Energy and Financial Modeling (based on ASHAREA 211) to industrial and residential facilities
- Develop M&V plan (based on IPMVP) to be adopted post retrofit and lead techno-commercial evaluations of energy efficiency projects
- Perform PV plant simulation and financial modelling to assess technical viability and economic feasibility of implementing a solar plant in a specific facility or building

**Al Nasr Contracting Company L.L.C,** Abu Dhabi, United Arab Emirates

June 2021 – August 2021

**Contracting Intern**

- Revise the piping, HVAC, and firefighting systems' technical drawings for a tunnel under renovation and in a building as a part of Al Maryah Project
- Review and interpret the material submittals, method statements, and shop drawings
- Conduct regular site supervision on piping, HVAC, and firefighting systems installation
- Prepare technical reports.

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## EXTRACURRICULAR ACTIVITIES

**American Society of Mechanical Engineers ASME** Byblos, Lebanon

February 2017-December 2021

**Student Member**

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## PROJECTS

**Design of two Power Plants for LAU (traditional and solar)** December 2021

- Components sizing, solar field layout optimization, and cost & financial analysis

**Modular Design for a Seventh Axis Robotic Track**

September 2020 – May 2021

- CAD design, Stress analysis, Actuator sizing, Cost analysis, Drawings

**Design of a Hydro-Solar Powerplant for a Remote Village**

May 2021

- Homer simulation, component sizing, and plant optimization on MATLAB

**Design of an Apartment's Piping and Hydronic Systems**

May 2021

- Equipment sizing for cold and hot water circuits and map drawings

**Design of a Double Pipe Heat Exchanger**

December 2020

- EES simulation, cost analysis, and performance optimization

**Design of a Ventilator for COVID Patients**

May 2020

- LabVIEW coding, circuit design, and sensor & actuator sizing

**Design and Manufacturing of a Full-fledged Go-Kart**

December 2018

- Steering, transmission and Gearbox design, assembly, and testing

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## SUMMARY SKILLS

**Languages:** Fluent in Arabic, French, and English.

**Computer skills:** Microsoft Office, EES, PVSyst, Sketchup, Homer

**Programming skills:** MATLAB, LabVIEW

**Soft skills:** Teamwork, problem-solving, time management, goal-oriented

**Interests:** Solar energy, renewable energy, automotive

**Hobbies:** Swimming, Cooking, Travelling.