

Hassan Nasser

Undergraduate ECE Engineer | Founder of Capstone-X

A senior student majoring in Electrical & Communication Engineering at Phoenicia University with background knowledge in Robotics, Electronics, Programming, Prototyping, and 3D designing. A fast learner & higher achiever who tries his best in developing new skills and to be in pace with the recent technologies.



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EDUCATION

Bachelor of Electrical & Communication Engineering

Phoenicia University (PU)

10/2019 - Present

GPA: 3

Lebanese Baccalaureate in Life Science

Mayfadoun Official High School

10/2017 - 10/2019

score: 16.3 / 20

WORK EXPERIENCE

Robotics & Microcontrollers

Freelancer

Worked on various sophisticated engineering projects as a freelancer.

Achievements/Tasks

- Robotics & Arduino based projects linked with IoT apps.
- PCB designing and printing.
- CNC assembly.
- Implement blueprints into real prototypes.
- Fabricate designs using 3D printing, then integrate them into the whole prototype to form the final product.

Programming & MATLAB

Freelancer

Worked as a freelance programmer, especially in the C++ domain & MATLAB.

Achievements/Tasks

- C++ projects involved with data structure, algorithms, and object oriented programming.
- Arduino and Raspberry Pi programming.
- CNC machines programming and debugging.
- MATLAB communication systems projects (modulation and demodulation of AM, FM, DSB-SC, SSB, VSB signals). link: <https://drive.google.com/drive/folders/16sNvaNkKGv5MijuXH5ikvgkaBDwaKC1I?usp=sharing>
- MATLAB control systems projects (PID, First & Second order systems, Electromechanical systems)
- Python basic projects.

SKILLS

Arduino

Microcontrollers

Programming

C++

Python

AutoCAD

3D designing

PCB designing

MATLAB

Prototyping

Electronics

Problem Solving

Time Management

Team Work

Adobe Creative Suite

PERSONAL PROJECTS

Instructables (01/2018 - Present)

- Active member at Instructables.com, view my profile with 24 project having more than 100 thousand views, here: <https://www.instructables.com/member/Hassan%20Nasser/>

Paper Recycling Machine (04/2019)

- Awarded the second place among Lebanon by the National Association for Science & Research. This machine works on the principle from trash to treasure by converting waste paper into new paper products such as cup holders, new flat paper, and others. link: https://drive.google.com/drive/folders/1wLHywOpQQy1yz71BYWV-ssAcBF15_ft?usp=sharing

Automated Planter (10/2019)

- This project was designed in order to make the planting process full automatic. link: https://drive.google.com/drive/folders/1wF7gu8n0yROFakn7cTlaxJQPcrbU2Q_M?usp=sharing

Ventilator Device (01/2020)

- During the Corona pandemic (2020), I've volunteered with the university team to design a ventilator device in order to fulfill the lack of ventilators in Lebanon, where I was responsible for 3D designing and prototyping of the device. check the link: <https://drive.google.com/drive/folders/1k8Ty9j00rAdfHs5TtWlQYgF2YMD3QhaH?usp=sharing>

RC Crawler Competition (12/2020)

- 3D printed catapult controlled using IoT app. link: <https://www.myminifactory.com/object/3d-print-bazooka-rc-crawler-customizer-competition-179368>

Capstone-X (01/2021 - Present)

- Founder of Capstone-X: <https://capstone-x.com/>

Team Member at Yummet (02/2022 - Present)

- Yummet is an enthusiastic team seeking for a better feature and save the world, the team is participating in the Elon Musk Competition X-prize Carbon Removal. link: <https://www.yummet.com/>

LIFI Project (03/2022)

- Wireless Communication Project, link: <https://drive.google.com/drive/folders/1FPUQW1ppoe8VZpGeEYwM2OsgYamwCni?usp=sharing>

WORK EXPERIENCE

Professional Designer & Web Developer Freelancer

Achievements/Tasks

- AutoCAD projects, designing whole apartment with all the needed calculations for electrical and mechanical parts.
- 3D designing for prototyping and Arduino projects.
- Worked as a web developer, especially for websites based on WordPress.
- Designing content using Adobe Suite. link:
https://drive.google.com/drive/folders/1lOQ3Qsr5lchuldSy_JUqOb33E5AZ57lr?usp=sharing

CERTIFICATES

National Association for Science and Research (04/2019)

Earned the second place among Lebanon for the category of environment and renewable resources at Mobarrat Aloulloum 2019, project : " Paper Recycling Machine". link:

https://drive.google.com/drive/folders/1wLHywOpQQOy1yz71BYWrV-ssAcBF15_ft?usp=sharing

Robotics Certificate (01/2020)

Robotics Certificate:

<https://drive.google.com/file/d/15HI16su8Z9GXtGu2PQ6Lmx9YBTl6qZN8/view?usp=sharing>

LANGUAGES

English

Full Professional Proficiency

Arabic

Native or Bilingual Proficiency

French

Limited Working Proficiency