

Anna-Jane Nazarian

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EDUCATION

Lebanese American University, School of Engineering

(Aug. 2018 – Sep. 2023)

Bachelor of Engineering in **Mechatronics Engineering** (B.E. in MCE)

EXPERIENCE

Student Assistant

(Aug. 2018 – Dec. 2019)

Provost's Office & Financial Aid Office Lebanese American University – Byblos Campus

- Assisted the financial aid officers and the provost's assistants with tasks in the office and around campus as part of the work-aid package.

PROJECTS

Playing Cards Sorting Belt – Mechatronics System Design I Course

- Designed and developed a system for sorting playing cards based on their suits using Raspberry Pi, Python, OpenCV, and Solidworks

Multi-Agent Adversarial Vacuum Cleaner App – Intelligent Engineering Algorithms Course

- Implemented and evaluated different search algorithms: A*, BFS, DFS, to find the shortest path as well as Minimax, Alpha beta pruning and Expectimax using Java & JavaFX

Fire Forest & Pest Detecting Device – Instrumentation & Measurements Course

- Designed a device that detects fires and pests in trees as a solution to deforestation and forest degradation using LabVIEW, NI MyRIO & Fusion 360

Green Room – Electronics Course

- Created an automation system to control the temperature, light, water, and security in a plant room as analog circuits using Cadence PSpice and modeled the PCB on EasyEDA

Oil Drilling Rig - Kinematics of Machines Course

- Conducted kinematic analysis by hand, simulation on Matlab, and 3D modeling on Solidworks for an oil drilling rig

Lebanese Meditation WebVR app - Introduction to AR/VR course

- Programmed meditation app that simulates different environments using A-Frame library, HTML, and CSS

Robotic Arm & Crossbow – Computer Aided Design Course

- Designed a robotic arm and an automatic crossbow, performing motion study, stress analysis, and flow study on Solidworks

Harsh Environment Robot - Capstone Project (*in progress*):

- Designed a Klann Walking Mechanism Robot to explore harsh environments in ROS Noetic, Solidworks, Raspberry Pi and Arduino

SKILLS

- **Software:** Altera Quartus | Arduino IDE | AutoCAD | CodeWarrior | Eclipse | GitHub | Google Collaboratory | IntelliJ | Jupyter Notebook | MATLAB Simulink | Ni LabView | OrCAD PSpice | PyCharm | Solidworks | Fusion 360 | EasyEDA
- **Hardware:** Raspberry Pi | Arduino Uno / Nano | Analog / Digital Sensors | MC9S12DT256 Microcontroller | Ni MyRIO | Electronic Circuit Assembling & Debugging | Soldering
- **Programming Languages:** Python: TensorFlow, Keras, Scikit learn, NumPy, Matplotlib, Pandas, OpenCV | Java | Linux Command Line Basics | MATLAB | 68000 Assembly Language | HTML | CSS
- **Languages:** Arabic (Native), English (Fluent), French (Proficient)

LEADERSHIP

Committee Member of Center

(May 2021 – Present)

Lebanese Red Cross – Youth Sector, Jbeil Center

- General Assembly member since 2018, having participated in activities that include educating the youth and providing awareness on humanitarian values and principles, health, and the environment, as well as local activities for the improvement of the community.
- Served as the Media and Public Relations committee member for a year.
- Currently serving as the Secretary of the center.

Trainer

(May 2022 – Present)

Lebanese Red Cross – Youth Sector – Beirut

- Completed facilitation training in the Youth & Health manual, and the General Training course, with the capacity to give training following international standards. And completed the Applied Trainers Course in the new manual “My Health is a Priority”.

Board Member

(Aug. 2022 – Present)

IEEE Section at the Lebanese American University – Byblos Campus

- Responsible for collaborating with other board members to develop and implement a vision for the club, and work on relevant events.

President & Board Member

(Aug. 2020 – Aug. 2022)

GSC at the Lebanese American University – Byblos Campus

- Led a team of 5 board members and bi-weekly meetings for over 100 members.
- Communicated with NGOs and professionals in the fields of physical and mental health to hold seminars and webinars to raise awareness on contemporary social issues.

Core Team Member

(Sep. 2021 – Aug. 2021)

Google Developer Students Club

- Collaborated with the board to plan and execute events focused on software development, computer science, and engineering, demonstrating strong organizational and teamwork skills.

Scouts

(Nov. 2017 – Dec. 2021)

Scouts du Liban – Club Amchit, Jbeil

- Member of the SDL organization, then served as the assistant chief for cub girls for 2 years, and their chief for a year.

CERTIFICATIONS

- **Certified Solidworks Associate** by Dassault Systèmes
- **CAD and Digital Manufacturing Specialization** by AutoDesk on Coursera
- **Fundamentals of Deep Learning** by NVIDIA
- **Introduction to SQL** by DataCamp
- **The Data Scientist's Toolbox** by Johns Hopkins University on Coursera
- **Understanding Research Methods** by University of London on Coursera