

Rabab Ali Kawtharani

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OBJECTIVE Seeking an internship in the mechatronics engineering field

WORK Heatechs Sep 2018 — Present
EXPERIENCE Co-Founder

- Performed general office duties and administrative tasks.
- Prepared confidential periodic financial reports for presentation to management.
- Managed the internal and external mail functions.

Rafik Hariri University Jan 2017 — Apr 2018
Instructor Assistant

- Help in Administrative work in Mechanical and Mechatronics Department
- Build Spider Robot for Exhibitions
- Student Learning Support Center for Mechanics of Materials and Dynamics Courses

EDUCATION BE in Mechatronics Engineering Sep 2016 — Jul 2020
Rafik Hariri Univrsity
CGPA: 91.61

Lebanese Baccalaureate in General Sep 2014 — Jun 2016
Sciences
Manarat Jabal Amel
Average: 18.11/20

PROJECTS

- **Plastic Bottles Shredder** -Fall 2019/Spring 2020
a PET bottle shredding machine designed compactly for domestic use; it shreds, cleans and drains plastic shred controlled using Arduino
- **Water Level Detection** -Fall 2019
a water pump to fill a tank associated with water level detection using point sensor, relays, and contactors
- **Metal Sorting Mechanism** -Fall 2019
a conveyor belt where waste is sorted between metal and nonmetal using inductive and capacitive sensors controlled by Arduino
- **Smart Detecting Device** -Spring 2019
a smart system controlled by Arduino to monitor the status of gasses, temperature, and humidity at houses connected to an android app for real time monitoring and warning from any threat of fires or toxic gas leakage
- **Self Balancing Robot** -Spring 2019
an inverted pendulum based on PID controller
- **Implementation of PCM as a heating strategy in mattresses** - Fall 2018
designing a phase change material filled pad used for body conditioning and heat/cold therapy based using heat transfer analysis
- **Pneumatic Can Crusher** -Spring 2017
a can crushing machine based on air pressure
- **Smart Recycle Bin** -Fall 2016
an automatic sorting bin for paper, plastic, and metals controlled using Arduino

HONORS AND AWARDS	<ul style="list-style-type: none"> • Second place winner of the Incubation and Business Support Prize by Berytech at LIRA Competition -Dec 2018 • First place winner at Hult Prize Lebanon -Sep 2018
ACADEMIC ACHIEVEMENTS	<ul style="list-style-type: none"> • Placed on Rafik Hariri University's Honor List (Fall 2016-Present) • Merit Scholarship from Rafik Hariri University (Fall 2016-Present)
WORKSHOPS	<ul style="list-style-type: none"> • ANSYS Workshop at RHU -Jan 2020 • Hult Prize Accelerator at BDD -June-July 2018 6 weeks training program designed to provide tools and frameworks essential to launching startups with social impact. • PCB Workshop at RHU -Oct 2018 • PLC Workshop at RHU -Oct 2017
EXPERIENCES	<ul style="list-style-type: none"> • Judge at the final event of Hult Prize Lebanon at S District -Sep 2019 • Judge at the on campus event of Hult Prize Lebanon at Phoenicia University -Feb 2019 • Panelist at CSR Lebanon -Oct 2018
PATENTS	Patent (11520) in the design of Heatechs pad for ecofriendly conditioning -Sep 2018
MEMBERSHIP	American Society for Mechanical Engineers (ASME) -Sep 2019 - Present
SKILLS	<ul style="list-style-type: none"> • AutoCad 2D and 3D Drawing • Solidworks 3D Drawing, Assembly, and Study • Programming (C++, Arduino,LabView, MATLAB, Ladder logic) • Circuit Schematic and Simulation Software (MicroCap, Fritzing, Multisim) • PCB Design (Eagle) • Microsoft Office: Word, PowerPoint, Excel, Visio,Visual Studio • ANSYS modeling
INTERESTS	<ul style="list-style-type: none"> • Robotics • Aerospace • Renewable Energy • Astronomy
LANGUAGES	<ul style="list-style-type: none"> • Arabic: Native • English: Fluent
REFERENCES	References available upon request.