

Abdelrahman Elawady

Madinah, Saudi Arabia | +966544776316 | 4413746@upm.edu.sa | www.linkedin.com/in/abdelrahmanelawady

Education

University of Prince Mughrin UPM
• B.Sc. in Electrical Engineering

Madinah, KSA
Sep 2023 – expected 2027

Experience

Part-time student employee

July 2024

University of prince Mughrin business development center – UPM

- Outlined and created content for a specified task such as a tourism guidebook.
- implemented Microsoft word to create more than 5000-words file with researched content.

University projects

Sophomore EE111 team python project

Nov 2024

- Supervised a team to design and adapt an OOP python power monitoring system software oriented to manage and analyze electrical devices data efficiently with user input and provide graphic analysis.

Sophomore team project for the Dean's and vice rector's office

Nov 2024

- Designed and implemented availability door sign product & provided manual utilizing esp32 microcontroller to wirelessly send output to be displayed on 32x8 WS2812 LED matrix and developed a web-app for user-convenience.

Sophomore EE231 logic circuits design project

Sep 2024

- Designed and coded a voting Arduino-based system project using a 74HC165 shift register that counted the votes on 2 sets of 4-bits binary LEDs and converted it to hex on a 7-segment display.

Freshman physics 102 team project

May 2024

- Collaborated with a colleague in a trial-and-error approach to design and assemble a low-budget DIY axial flux electric generator using eight coils of 250-loops and 32 magnets mounted on a CD disk, resulting in 3V output.
- Won 2nd place in the physics project competition earning 1500SAR.

Freshman CS141 team MATLAB project

May 2024

- Worked with a team to design and develop signal analysis software that takes user-input, simulates adding noise to a signal and filters it utilizing filtering statistical algorithms with displayed results on a graph.

Research projects

1st & 2nd author researcher

in progress

- Outlined, and wrote a research paper on the effects of polymers in self-healing concrete and another on AIUla tourism.
- Coordinated with a team and a mentor to write and edit the paper using standard research and referencing styles.

Independent Programming projects

JavaScript to-do-list app

Jun 2023

- Programmed a JavaScript to-do-list web app that stores the data locally on the browser and retrieves it.
- Demonstrated proficiency in event handling and DOM manipulation to create interactive task management with variety of functionalities (adding dates, deleting, and checking items).

Python Interactive covid-19 data visualization map

Jun 2021

- Developed an online interactive Covid-19 data map using python folium library and HTML I-frames.

hosted the projects online on Netlify platform on <https://app.netlify.com/teams/abdallahman666/sites>.

Skills, Technologies & Interests

Skills: MS office (word, excel, PowerPoint), fluent English (98/100 score on English STEP test), Arabic native speaker.

Technologies: C++, Python, MATLAB, AutoCAD, Multisim, applet circuit simulator, HTML, CSS, JavaScript.

Interests: creative scripts, scenarios, & content writing; Tutoring.

leadership/Volunteering & Awards

- Electrical Engineering Club active leader.
- 100+ hrs. Volunteering in various events and clubs.