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- Personal Profile

- I am a 2nd-year computer Engineering student at the university of Cairo faculty of engineering.
- my score at college ranges between B+ and A- due to the fact that I care a lot about working practically more than I care about getting high scores.

- Education

- 2nd Year computer Department at Cairo University Faculty of Engineering.
- Experience working with arduino.
- Experience working with netduino.
- Experience working with node mcu (esp8266).
- Experience working with pic microcontrollers.
- Experience working as backend developer which proved to be useful for IOT applications.
- Experience working with a lot of simulation tools and languages Verilog, proteus, simulide, logisim.. etc.
- Experience working with opencv.
- Experience in designing and manufacturing 1 layer PCB circuits(I can also design multilayer PCB).
- Good C# windows.
- Good C++ knowledge.
- Good typescript knowledge.
- Good JavaScript knowledge.
- Good python programming skills also good at using data science modules (numpy, matplotlib, pandas...etc).
- Experience working with kali linux operating system.
- Experience working with bash, powershell.
- Experience working with sql, mysql, sqllite, mongodb databases.
- Experience at developing automation scripts using python.
- Good knowledge about the designed patterns(MVC, adapter, decorator, Etc).
- Basic knowledge about networking like setting up dhcp servers, sending raw http requests...etc.
- Good experience working with compression algorithms like ppm, Huffman, LZW, LZSS, LZ77, and others.
- Very good English speaker and presenter (finished the 10th level out of 15 at not courses Egypt English center as the top student of the level with more than 90% grade it is worth

saying that I was doing the course with engineers who are older than me and other people who worked as HRs).

- I have been using GitHub since 2018 for projects.
- Work experience
 - I have taken part in a small business with a family member to assemble security systems for small companies
 - I have worked in the social media advertising for this previous business.
 - I had good experience with digital social marketing
 - Good graphical design skills using adobe photoshop and illustrator.
- Additional skills and Interests
 - Interested in reading books about networking and IOT.
 - Interested in the robotics field
 - Interested in reading books especially ones with lots of photos and practical useful information
 - I also read books about artificial intelligence using python.

You will find some of those projects under hardware projects section on my website.

- Some Projects I did (some are academic and others in courses in summer or for personal usage)
 - Designed an elevator system using only arduino uno.
 - Designed a wifi remotely controlled car using Arduino esp8266.
 - Graphics game using arduino uno as microcontroller it also included sound interaction.
 - Designed a production line control system for a baking industry(simulation).
 - Designed IC tester using sequential Circuits.
 - Designed A simple circuit for multiplication as part of a project to design a 3 bit signed arithmetic ALU.
 - Designed A lot of other systems that were challenging in terms of cost, performance and memory.

- Appendix

- My portfolio website

“<http://mohammedibrahimgaballah.pythonanywhere.com/>”

- My github account “<https://github.com/marait123>”