

# Mostafa Ahmed Elsharnoby

(Nasr-City, Cairo, Egypt)

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- Phone: +201150293056.
  - Portfolio: <https://sharnoby.club/>
  - Email: [mostafaelsharnobi@gmail.com](mailto:mostafaelsharnobi@gmail.com).
  - GitHub: <https://github.com/mostafa-elsharnoby/>
  - Codeforces: <https://codeforces.com/profile/sharnoby>
  - LinkedIn: <https://www.linkedin.com/in/mostafa-elsharnoby/>
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## Education: -

- Computer Engineering Graduate from Faculty of Engineering Ain-Shams university, **2017-2022**  
Cumulative grade: Very Good, Major grade: Excellent.
  - **Graduation Project (AUTOSAR RTE Tool by Avelabs):** **2021 - 2022**
    - Designing and developing RTE tool, that allows the user to configure the connections In the RTE layer and generate corresponding files.
    - o Generate ARXMLs and C files using Python v3.7 and PyQt5.
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## Experience: -

- **Full Time Software Engineer at Siemens “Capital Suite”:** **Aug 2022-Present**
    - Develop functionality within a large Java based tool suite (making a hands-on contribution to the code and design).
    - Work closely with other developers (UK Based) to design suitable solutions and with Product Owners to understand customer flows and elaborate technical requirements.
    - Work with the customer support team to investigate and manage customer issues & activities.
  - **Trainee at Sprints powered by NAID.** **July 2021 – Nov 2021**
    - 3-months of summer training in web development using MERN stack technologies. - work on real life projects to help PWDs and make their life easier using tech.
  - **Full-Stack Developer Intern at Amanleek.** **Mar 2021 - June 2021**
    - I solved bugs on the website by following the best practices solve it correctly.
    - Discuss about new features how could be done and how to integrate it with the system.
  - **Trainee in pilot program at Udacity.** **Sep 2020 – June 2021**
    - Pilot program, powered by ministry of communications, is a program for Udacity graduates. - Chosen to be one of 250 trainees out of 2500 applicants.
  - **AI Analyst track at IBM.** **June - Aug 2020**
    - 2 months of virtual training about AI basics and how AI could be used to develop systems and how to improve the services we provide using AI.
  - **Two Months of Summer Training at IHUB (RC Car with Arduino), at ASU.** **July - Aug 2018**
    - Robotics competition requires RC car to go over ramps and push objects to the required Place and go over some stairs.
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## Competitions: -

- **5<sup>th</sup> place at ACM problem solving competition.** **Oct 2020**
  - Part of team must solve more problems in less time and we got the 5<sup>th</sup> place.
- **4<sup>th</sup> place at Robotics for hard missions’ competition at Aviation club at ASU.** **Mar - June 2019**
  - First one for making hard missions like taking objects and move them to another basket and push objects to the right place.
  - Second robot is self-driving RC car that should get out of the maze using implemented algorithm. place and go over some stairs.

## Courses & Skills: -

- **Computer Courses.**

- AUTOSAR course powered by Sprints. **Jan - Jun 2022**
- Full Embedded Systems Diploma under supervision of Engineer Mohamed Tarek. **Jul - Oct 2021**
- Algorithms and Data structures **Specialization** San Diego “6 courses”, Coursera. **May 2020 - April 2022**
- Web development Beginner and Professional track on Udacity by FWD **July - Oct 2020**
- The web development bootcamp, Udemy, 46.5 hours **Feb - May 2020**
- C++ for beginners and beyond, Udemy, 40 hours **June - Aug 2019**

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## Computer Skills.

- C/C++/Embedded C
- Data structure
- Algorithms
- Problem solving
- HTML/CSS
- PyQt5
- MERN Stack
- JavaScript/jQuery
- Python
- Git and GitHub
- OOP
- PHP/MySQL
- MATLAB
- Flutter/Dart
- Linux
- SQL
- Verilog
- SystemVerilog

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## Projects: -

- **Embedded Systems: GPS Tracker using TivaC** **June 2021**
  - GPS read the coordinates, send it to Tiva to process it , calculate the distance and speed ,show it on the LCD. - Tiva sends the coordinates to the PC and using google maps API plot the trajectory on the map.
- **PyQt5:**
  - **CPU scheduler simulator:** GUI apply algorithms in operating systems as FCFS, SJF, round robin,etc. **May 2021**
  - **Memory simulator:** GUI apply algorithms in operating systems as best fit, first fit and worst fit to allocate and deallocate the processes in the memory to show it dynamically. **April 2021**
  - **XML Editor:** create and edit XML files ,save and compress them, parse them to json files **June 2021**
- **Flutter Project: Learning Management System Application (team leader):** **Jan 2021**
  - Academic staff view students’ progress, post materials, announcements, assignments, quizzes, and trainings.
  - Enabling the students to keep track of their records, register their year courses, submit assignments, quizzes, CVs.
- **Web Projects: -**
  - **Distributed E-Commerce website:** **Jan 2022**
    - E-Commerce web application with a distributed database using MERN stack.
  - **Electronics store (E-Commerce Website): “Freelancing Project”** **Sep 2020**
    - Owner can show the products on the website, users can add products to basket, choose a payment method.
  - **Camping website.** **Jun 2020**
    - Allows the users to add camping places with the prices included or if you want to select a camping site you could choose one of them and add comments and leave a rate after your experience.
- **Security Projects:**
  - DES implementation using CPP. **Jan 2022**
  - Malware Detector using Python.
- **C++ Projects: -**
  - **ATM program.** **Sep 2019**
    - Project using OOP concepts, User could create bank account, deposit, and withdraw money from the account.
  - **Matrix Multiplication Program.** **Mar 2019**
    - Program can do a matrix operation like addition, subtraction, etc. the program takes the matrix from the user in a string format, and it is required to provide the user an output with the same string format.

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**Military Status:** Exempted.