

Contact

www.linkedin.com/in/moustafaraafat2 (LinkedIn)
github.com/moustafaraafat
(Personal)

Top Skills

C++
C (Programming Language)
Object-Oriented Programming (OOP)

Moustafa Raafat

Embedded Linux Software Engineer (C++)
Munich, Bavaria, Germany

Experience

Valeo

Embedded Linux Software Engineer (C++)
September 2020 - Present (3 years 5 months)

- Worked with The Comfort & Driving Assistance Systems Business Group
- Delivered Telematics Control Unit for PSA Group with features like eCall, positioning, FOTA, Wi-Fi, SMS
- Developed applications in modern C++ such as Application Manager and Wi-Fi Manager
- Handled communication between applications using vsomeip and other in-house IPC protocols
- Familiar with the Yocto Project and wrote recipes for applications
- Used GoogleTest for unit testing
- Applied least privilege principle for the whole system using SMACK and non-root users
- Stack: C++| Yocto| Linux| SOME/IP| IPC| RPC| CAN| Python| Bash| CMake| OOP | Multithreading| SQLite| TCP/IP| GoogleTest| GoogleMock| Doxygen| CoreALM| Jenkins| Jira| DOORS| DLT| JSON| SonarQube| Linux Security Modules (SMACK)| MQTT| Embedded C| TCU| eCall

Dars

Mathematics Team Lead
August 2016 - February 2022 (5 years 7 months)
Egypt

- Ensured the tutors (including the newly qualified tutors) are trained, monitored, and supported.
- Led, developed ,and enhanced the teaching practice of the tutors.
- Conducted quality assurance for created videos and other materials to ensure their mathematical rigor and alignment with Darisni standards.

Education

Alexandria University

Bachelor's degree, Electrical, Electronics and Communications
Engineering · (2013 - 2018)

National Telecommunication Institute (NTI)

Postgraduate Diploma, Embedded Software Engineering · (2020 - 2020)