

# Mahmoud Biltagy

Senior Expert Software Engineer

8+ years in software development



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 Giza, Egypt

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 Egyptian, Married, with 2 children

## WORK HISTORY

2023 to Present

**Senior Expert Software Engineer, Seitech Solutions, Tooling Team,** Cairo, Egypt

- Translate customer requests into requirements
- Lead, plan, review and support developing in:
  - Web GUI using Flask and JavaScript
  - DevOps and pipeline configuration on GitLab
  - C++ app for network switch configuration in test vehicles
  - Python and C++ gateway for CAN and Ethernet networks
  - C++ recorder for CAN, Ethernet, and camera traffic
  - Instrumental cluster development using Qt and QML
  - Vehicle radar data visualization in Streetscape

2022 to 2023

**Software Engineer, Luxoff,** Cairo, Egypt

- Lead developing team and handle customer requests
- Analyze and resolve unit, integration, and functional tests for adaptive application using C++
- Analyze C code and requirements for traceability gaps

2020 to 2022

**Senior Software Engineer, Valeo,** Cairo, Egypt

- Write Qt HMI applications in C++ and QML (AR 3D Head Up Display, Navigation App using Here map)
- Translate project management requests into tasks
- Perform code review and integration

2016 to 2020

**Software Engineer, Valeo,** Cairo, Egypt

- Write embedded applications in C
- Write Qt for MCU on IMXRT1050 using Qt Quick Ultralite
- Work on multitude of products: Touch Display – Instrument Cluster – Flash Over the Air – Climate Control – Thermal Camera – Haptic Feedback

2014 to 2015

**Co-Founder, Al Khayma Coworking space,** Al Fayum, Egypt

- Give training in robotics and programming

2012 to 2015

**Reserve Engineer Officer, The Egyptian Army,** Egypt

- Maintain electronics for radar and missile systems

## SKILLS

- C/C++, Python, Qt (QML)
- Gitlab Pipelines, Docker, GTest, CAPL, jRPC, MQTT
- CAN, USB, I2C, SPI
- IMX-RT1050 (Cortex-M7), Tiva C, Raspberry Pi, Renesas RH850, RL78
- TI-RTOS, MicroSAR, Classic & Adaptive AUTOSAR
- HERE Map Provider, Streetscape

## EDUCATION

2016

**9-month Embedded Systems Diploma, Information and Technology Institute,** Ismailia, Egypt

2012

**BSc. Electronics and Communication, Fayum University,** Al Fayum, Egypt

## VOLUNTEERING

2015

**World Robot Olympiad**  
Coach and Organizer

2009 - 2011

**Life Makers Charity Organization**  
HR officer

2010

**IEEE Fayum Student Branch**  
HR officer and organizer