Abedalgane Gharra

Embedded & Automation Software Engineer
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Software Engineer with **3 years** of professional experience, skilled in designing and developing **automation systems CI/CD from scratch using C# .NET and Python**, building **web applications and desktop applications with C#**, and working with **RT embedded systems using C.**

Professional Experience

Embedded Software Engineer – SolarEdge   1.2024 – 9.2024

- Responsibility for EV Charger software containing **STM32** chip, with **IAR** that works with **Modbus** Protocol.
- Responsibility for Electric meters software containing **EFR32** and **EFM32** chips, with **Simplicity Studio** that works with **Modbus** and **RF.**

Automation Engineer – SolarEdge   7.2022 – 1.2024

- Design and implement automated testing **systems** for **embedded devices** using **C#, NUnit, .NET, Python, Multithreading, Git, GitLab CI/CD, Bat Scripts, Visual Studio.**
- Design and implement **inline website from scratch** for stakeholders and implemented CI/CD processes using **C#, MVC ASP.NET, CSHTML, CSS, JavaScript, SQL, Entity Framework, and SQL Server Management.**
- **Leaded a fleet of lab test machines and associated CI automation.**
- Used Various communication technologies such as **TCP/IP, UDP, UART, RS485, Ethernet, USR-VCOM.**
- Design and implement desktop applications using **C# forms** for multiple devices to enable **remote control** and connection between two com ports.
- Experienced With **Git, Agile Methodology**, and modern development tools and practices.
- Design and implement documentation for the testing system and **provide training to junior team members**

Automation Engineer Student – SolarEdge   12.2021 – 7.2022

- Maintained automated testing system using C#.
- Design and implement test plans for new products.

Volunteering

Software Support Volunteer – Takween (Part Time)   2022 - 2023 (1 years)

- Developed a desktop application using **Python Tkinter** for sending **automatic WhatsApp messages**.
- Configured Microsoft Teams for teachers to fill attendance and view statistics for every child.

Education

B.Sc. in software engineering - SCE College   2018 - 2022
Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks.

Certificate of qualified electrician – SolarEdge   2022

More Udemy courses: Web Development: Node.js, React, HTML, CSS, JavaScript, jQuery, EJS, APIs. **Databases**: SQL, MongoDB, Firebase. **Mobile Development**: Flutter**. Backend Development**: Express, Django. **Programming Languages**: Python, C, Java. **Game Development**: Unity.

Languages - Arabic (Native), English (Fluent), Hebrew (Fluent).