

# Bassam Helal

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## Technical Skills

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Advanced proficiency in **ANSI C** for **Embedded Systems**

Advanced proficiency in **Kotlin** and **Java** for **JVM** development

Advanced proficiency in **TypeScript** for **Node.js**

Intermediate proficiency in **Embedded Systems** concepts and protocols

Intermediate proficiency in **bash** scripting and **GNU/Linux**

Intermediate proficiency in **Android Development**

Intermediate proficiency in **React.js**

Basic proficiency in **Assembly Language** (x86 and ARM)

Basic proficiency in **Embedded C++**

Extensive experience using **Test Driven Development**

Extensive experience with **Object Oriented Design** and principles

Extensive experience with **Functional Programming** concepts and principles

Moderate experience using various embedded platforms such as **ESP32** and **Raspberry Pi Pico**

Moderate experience building and updating **Full-Stack Web Apps**

Moderate experience **contributing to Open-Source Projects**

Limited experience with **Project Planning and Management**

## Soft Skills

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Strong drive and enthusiasm for high quality, **scalable and maintainable software**

**Fast learner** with a deep passion for learning new things, not just in software

Adeptness in **project planning and management**

Effective **teamwork** and **communication** skills

**Flexible and adaptable** to changing project requirements

**Open-mindedness** and willingness to explore new ideas and solutions

**Culturally diverse** from frequent moving across continents during youth

Native fluency in **English** and **Arabic**, basic proficiency in **Turkish** and **Persian**

## Education

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**BSc. Software Engineering** from Swansea University in 2019: **First Class with Honors**

**MSc. Advanced Software Technology** from Swansea University in 2020: **Merit**

Both degrees required a project with a written dissertation, which both received a **First Class** and **Distinction** mark respectively.

Some modules taken across both courses:

- Software Engineering

- Operating Systems and Architectures

- Advanced Object Oriented Programming

- Algorithms & Data Structures

- Concurrency

- Software Testing

- Web Application Development

## Interests

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I am a passionate advocate for Free (as in Freedom) software. I use GNU/Linux as my daily operating system.

I enjoy exploring and listening to a wide range of music from across the world. I play the keyboard and qanun in my free time.

I enjoy linguistics and learning about different languages, I am a regular contributor to Wiktionary in my spare time.