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[Github.com/Bsm-B](https://github.com/Bsm-B)

Developer & Designer Consumer Electronic – Senior Embedded Systems Developer - Software Developer

Bessem Bousselmi – 8 years Experience

Seasoned developer and designer of consumer electronic products, with a portfolio of **four market-launched products**. Skilled in embedded systems, IoT, and software development, with expertise spanning hardware integration, product lifecycle management, and cross-functional collaboration.

Proven track record in leading high-impact projects and delivering tailored solutions for automotive and consumer electronics sectors.

Main references

Embedded Software Team Lead: BMW Group via Capgemini (1 year)

Lead and manage the Linux and Android Integration Team, ensuring efficient processes and high-quality outcomes.
Provide leadership and support for the **Yocto Project Team**, guiding the development and implementation strategies.
Oversee backlog refinement and manage tasks
Conduct Configuration Control Board (CCB) meetings and provide robust support to the Management team

Senior AI Embedded Engineer: Tuito.fr (1 year)

Create custom Linux image with **Yocto project** for AI application to deploy in smart product
Search for technical solutions (target Hardware, Software)
Integrate and optimize AI models on hardware targets for the online / offline and real-time exploitation of multi-sensor data, neural network models, and IoT communication stacks

Senior Embedded Software Engineer: Géothentic (2,5 years)

Develop & design specific Bootloader for NXP i.MX RT Processor
Design centralization pipeline for embedded cross-compilation (ARM) based on Devops
Create & develop new generation of product
Research, development and manufacture of internal tools (Software and Hardware)
Analyze and find solution for bugs in products

Product Leader: Genical.io (3 years)

I oversaw the design of a new IoT product intended for the General public.
I effectively supervised and coordinated activities between different teams, such as mechanics, electronics, and programming, while ensuring that hardware design, plastic injection design, and firmware were properly tested and validated.
I played a crucial role in selecting suitable factories and manufacturing partners

Education

Mobile Embedded System - Computer Engineer

ESPRIT HIGHER SCHOOL OF ENGINEERING AND TECHNOLOGY (2017)

Skills

- **Desktop:** C#, VB.NET, QT C++, Python, RUST, GTK+, JAVA
- **Embedded System & Linux Embedded & IoT:** C, C++, BASH, Python, POSIX API, FreeRTOS, Zephyr OS, Linux From Scratch, Yocto, Buildroot, OpenWrt
- **MCU/CPU:** STM32, NXP Kinetis, NXP i.MX, ESP32, AVR, PIC, Raspberry, Allwinner
- **Web:** PHP, Symfony, Laravel, Nodejs, Django, HTML/CSS/JS, Wordpress, PrestaShop, Browser Extensions
- **Database:** MongoDB, MySQL, MSSQL, Postgresql, SQLite
- **AI&ML:** Tensorflow (JS/LITE/MICRO), Keras, Scikit-learn, Pandas, Numpy
- **Mobile:** Flutter, Dart
- **Cloud:** Kubernetes, Docker, Jenkins, OpenKVM, Azure DevOps Server, VMware, Ansible, Nexus, Prometheus
- **Electronics:** Altium, Kicad, Amplifier, Sift register, Decoder, PMIC, Multiplexer, Flash, EEPROM
- **Mechanical:** Solidworks (Metalsheet & Drawing & Molding injection), 3D printing
- **Protocols:** SSH, FTP, SOAP, HTTP, WebRTC, REST, MQTT, RabbitMQ, CAN, UART, I2S, I2C, SPI
- **Tools & Other:** Git, Confluence, Jira, Photoshop, Illustrator, ClickUp

ACHIEVEMENT & PROJECTS

- **LinkLove.tn - IoT Product :** leader project from scratch to market
- **Fakrouna V1 - lora satellite animal Tracker :** leader project from scratch to market
- **Qoobino.io:** is a fully integrated platform designed to teach children programming and embedded AI/ML

LANGUAGES

- English, Arabic, French , Italian