PFE BOOK

2024-2025

INNOVATION AND IMPLICATIONS

JOIN OUR TEAM

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MÜNSTERHAUSEN

HONG KONG

TUNIS

SFAX

OUR
LOCATIONS

career@habemus.com   /in/habemus-solutions/   www.habemus.com/en

ABOUT US

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Established in 1995, habemus! is a leading competence center for electronics and software engineering, with headquarters in Germany and offices in Tunisia and Hong Kong.

In a world increasingly focused on IoT, we bring ideas to life. As a dedicated **IoT solutions provider**, we guide our customers through every stage of the product lifecycle from initial concept and design to manufacturing, maintenance, and after-sales support.

At habemus!, we empower our team members to grow their careers, develop essential skills, and become **leaders** in their fields. We believe that fostering growth and **innovation** is key to delivering advanced IoT solutions that drive success for our clients and create lasting industry impact.

OUR FIELDS OF EXPERTISE

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We are pleased to present some of our **fields of expertise**, each offering unique knowledge and hands-on experience opportunities:

- **Embedded Software Development:** Focuses on developing robust, high-performance software for embedded systems, leveraging the latest programming techniques to ensure reliability and efficiency in real-world applications.

- **Web and Mobile Development:** Specializes in building smooth, user-friendly applications that blend appealing front-end design with robust back-end functionality, providing engaging and intuitive digital experiences.

- **Hardware Development:** Drives the design, prototyping, and integration of innovative hardware solutions, bridging software and hardware to support advanced technology implementations.

- **Quality Assurance:** Ensures our products adhere to the highest quality and reliability standards, rigorously testing and refining solutions to meet and exceed client expectations.

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CULTIVATING
FUTURE LEADERS

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At habemus!, we are dedicated to empowering the next generation of talent.

What sets us apart? Our dynamic environment fosters collaboration and mentorship while providing flexibility and support. We offer an enriching internship experience designed to empower future professionals. Here are some additional key benefits of joining our team:

- Competitive **Remuneration**: We value your contributions and offer a competitive remuneration to reflect that.

- Introduction to the Professional World: Gain hands-on experience and insights that will prepare you to excel in your **career**.

- Innovative Projects: Work on cutting-edge projects that challenge your skills and spark your **creativity**.

Be part of a community where your potential can truly shine and help shape the future with us!

EMBEDDED SOFTWARE DEVELOPMENT

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TOPIC 1

EVALUATION OF UWB AND GNSS FOR INDOOR AND OUTDOOR POSITIONING SOLUTIONS

Description:

This project focuses on developing and optimizing a dual-environment positioning system: ultra-wideband (UWB) modules and inertial sensors will provide high-precision localization for indoor settings, while Precise Global Navigation Satellite System (GNSS) technology will enhance accuracy in outdoor environments. The system integrates STM32 microcontrollers to support seamless operation across these diverse conditions.

Skills:

Embedded-C
Microcontroller
STM32
Signal Processing
Hardware Interfaces
UWB
GNSS

EMBEDDED SOFTWARE DEVELOPMENT

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TOPIC 2

EVALUATION OF RADAR-BASED ENVIRONMENT DETECTION SYSTEM

Description:

It is possible to use highly integrated radar systems to detect and recognize the environment of a moving object. The purpose of this project is to evaluate the use of modern radar systems and STM32 microcontrollers for the environmental detection of moving objects and develop the necessary systems.

Skills:

Embedded-C
Microcontroller
STM32
Signal Processing
Hardware Interfaces

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EMBEDDED SOFTWARE DEVELOPMENT

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TOPIC 3

Internship Duration? 6 months
Remunerated? Yes
Location? Sfax

ARTIFICIAL INTELLIGENCE ON EMBEDDED MODULES

Description:

Software modules based on Deep Learning or other technologies may be used for example for voice control or environment detection. The purpose of this project is to develop AI solutions using Embedded Linux or microcontrollers for device control and environment detection.

Skills:

Embedded-C
Microcontroller
STM32
Artificial Intelligence
Deep Learning
Embedded Linux

EMBEDDED SOFTWARE DEVELOPMENT

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TOPIC 4

Internship Duration? 6 months
Remunerated? Yes
Location? Sfax

DEVELOPMENT AND INTEGRATION OF AN AUTONOMOUS ROBOT

Skills:

Embedded-C
Microcontroller
STM32
Raspberry Pi
Linux
ROS2

Description:

Robots may be used in different daily tasks to improve life quality. The purpose of this project is to design a robot including hardware and software topics in coordination with other team members. The software uses sensor inputs and control commands to navigate the robot and communicate with other devices.

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WEB AND MOBILE DEVELOPMENT

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TOPIC 5

Internship Duration? 6 months
Remunerated? Yes
Location? Tunis / Sfax

DEVELOPMENT OF AN AI-POWERED TOOL FOR PROCESS MANAGEMENT

Skills:

React
Node.js
MongoDB
REST API
MS Azure
AI (NLP)

Description:

The goal of this project is to develop a web-based dashboard that streamlines two key processes. The first part focused on creating a system to help habemus! associates comply with the internal process. The second part involves a smart talent acquisition tool that uses AI to guide the HR department through the hiring process.

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INTERESTED?

APPLY BY SENDING YOUR **CV** AND THE PFE **TOPIC** NUMBER TO:

✉ **career@habemus.com**

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