

PROFESSIONAL SUMMARY (Please visit my web portfolio for more details)

Experienced Software Developer adept in bringing forth expertise in design, installation, testing and maintenance of software and embedded systems. Proficient in various platforms, languages, and embedded systems. Experienced with the latest cutting-edge development tools and procedures. Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team.

WORK EXPERIENCE

Project Manager (TMS and Fleet GPS Tracking System) - Engineer

(Sep 2021 – Present) at SENDATRACK • Tangier, Morocco

- Spearheaded the development of a **full-stack web application** using **Angular** and **Laravel**, including a **Transport Management System (TMS)** and **Fleet GPS Tracking System**.
- Created cross-platform mobile applications for Android and iOS using Flutter, enabling real-time tracking and analytics.
- Managed MySQL databases to optimize performance and ensure data integrity for GPS tracking solutions.
- Oversaw server deployment and maintenance to guarantee high availability and scalability of the system.
- Directed a talented development team, set project milestones, and ensured timely delivery of high-quality software solutions.
- Implemented rigorous testing procedures to ensure functionality, security, and reliability of the solutions.
- Collaborated closely with clients to tailor GPS tracking solutions to meet their unique business needs.
- Provided technical support to technicians for GPS device configuration, installation and maintenance.
- Offered continuous support, resolving user-reported issues and conducting training sessions for support staff.

IT Engineer

(Jul 2021 – Sep 2021) at SENDATRACK • Tangier, Morocco

- **Support** and **maintenance** of the old infrastructure.

Project Manager (Reverse Vending Machine) - Engineer

(Jun 2021 – Present) at IOSENTECH (SENDATRACK's sister company) • Tangier, Morocco

- Spearheaded the creation of a smart interactive **reverse vending machine** using embedded systems, cameras, rotating platforms, and AI for streamlined recycling.
- Designed **AI model** for object classification and implemented **software solution** for touchscreen communication.
- Led design and development of Reverse Vending Machines **Management System** using **Flutter** and **Laravel**.
- Developed **cross-platform** mobile apps for **Android** and **iOS**, featuring machine location, point redemption, and account management.

Intern

(Apr 2021 – Jun 2021) at Cloud Vision • Tangier, Morocco

- Developed a versatile desktop application using **Python**, **OpenCV**, **MediaPipe**, and Qt Designer.
- Developed features allowing mouse control, painting, and screen writing via camera and finger input.

Remote Intern (agricultural drone)

(Mar 2021 – Aug 2021) at INTELLCAP SARL • Rabat, Morocco

- Played a key role in the development of an **autonomous agricultural drone** at INTELLCAP SARL.
- Contributed to monitoring crop growth and advancing precision farming practices.

AI Intern Student (Panoptic Segmentation Research)

(Mar 2021 – Sep 2021) at LabTech ENSA • Tangier, Morocco

- Reviewed literature to grasp **Panoptic Segmentation** methods and spot chances for innovation.
- Contributed to dataset annotation and preprocessing for training and evaluation.
- Conducted experiments to train models and evaluated performance metrics for refinement.

SKILLS

Experienced in:

- Full Stack Web Development, Angular, Laravel, HTML/CSS/JavaScript
- IA, Machine Learning and Neural Networks
- Python, PHP, C/C++, Java, C#, Dart
- Flutter, Android App Development, Ionic
- MySQL, SQL Server
- Linux, Windows Server
- Git, Project management, JIRA
- Embedded systems, Electronics, schematics and data sheets, JTAG
- Microcontroller architecture: NXP, S32K3, STM32
- Communication protocols: CAN, SPI, LIN, UART, I2C

Familiar with:

- DevOps: Google Cloud Platform, AWS, AZURE, MS365, Dockers
- React, Flask
- VMWare, RDP
- Verilog, VHDL | Xilinx, LabVIEW, Matlab
- UML, Merise

LANGUAGES

- **English:** Proficient
- **French:** Very good command
- **Spanish:** A1

EDUCATION

Communication / Embedded Systems and computer vision Master's Degree

(2019 – 2021) at National School of Applied Sciences • Tangier, Morocco

- Pursued a degree in Communication, Embedded Systems, and Computer Vision to deepen expertise.

Diploma of Specialized IT Developer

(2013 – 2015) at Specialized Institute of Applied Technology • Larache, Morocco

- Acquired specialized skills in software development, programming languages, and IT project management.

WEBSITES & SOCIAL LINKS

- **Website Portfolio:** <https://youness.ezouagh.me>
- **Linked-in:** <https://www.linkedin.com/in/youness-ezouagh>
- **GitHub:** <https://github.com/yezouagh>