ESTEVE SORIA FABIÁN

(Spain) +34 645 476 452
esofabian@gmail.com

SUMMARY

Electronics industrial engineer specialized in embedded systems focused in computer vision, artificial intelligence and robotics. Interested in developing the technologies that are going to improve our quality of life and develop society. Results oriented and eager to learn. Experienced in consulting and startups. Passionate of automation, focusing in task automation to gather the maximum time to focus on delivering quality products.

WORK EXPERIENCE

AI LEAD | May 2019 – Currently | Valencia (Spain)

- Responsible of AI technology and development.
- Deployment of a **highly scalable Deep learning platform** for video processing in the cloud using **AWS ECS**.

C++ & AI DEVELOPER | Jan 2019 – Currently | Valencia (Spain)

- Emotion recognition pipeline implementation in **C++** and **Tensorflow**.
- Development of a **multi-platform** automatic release for Windows, Linux (CPU, GPU) and **Jetson** platform.
- Using DevOps practices, set up CI pipelines for process automation and improvement of productivity during software life cycle.
- Core library migration from C++98 to C++14.

COMPUTER VISION DEVELOPER | Ago 2017 – Oct 2018 | Vigo (Spain)

- Development and fine-tuning of object detection pipelines for embedded devices deployment based on Deep Learning (**Caffe** and **Tensorflow**).
- Research and implementation of pipelines focusing in fast inference (**Intel Movidius, TensorRT, TF Lite**).
- Development of a system for vehicles and pedestrian counting and tracking in real-time. (**Jetson Board, C++14**)
- Development of a semi-automated development and testing suite for deep learning models to decrease the time between experiments.
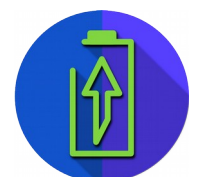
JUNIOR CONSULTANT | Feb 2016 – Feb 2017 | Valencia (Spain)

- Development of new releases for the Valencian Health Department. The framework used was based on **Spring**, **Hibernate**, **ExtJS** and **Oracle RDBMS**.
- Migration from **JSP** and **Struts** to **Spring**, **Hibernate** and **ExtJS** stack.
- Development of new releases in different apps for the University of Valencia using: **JSP**, **Struts** and **Oracle RDBMS**.

DEVELOPER & CO-FOUNDER | Sep 2015 – Feb 2016 | Valencia (Spain)

- Development of a technology that allowed sharing energy between smartphones with our proprietary cable. (**C**, **CORTEX-M4**)
- Development of a middle-man that showed ads in the phone that was charging as a monetization objective.
- Development of an Android app to show our user base the location of the people with a Uplite device

around them.

DEVELOPER | Jun 2015 – Sep 2015 | Valencia (Spain)
- Android apps & games development: Facebook friends quiz, sickness predictor, several speed reflexes games.
- Development of booking platform for sport centers.

TRAINEE | Oct 2014 - Feb 2015 | Gdansk (Poland)

- Sales team support from the technical point of view.
- Development of an audiovisual guide for the **iModCloud** software new customers.
- **iModCloud/NxDynamics** presentations to potential customers.

EDUCATION

Oct 2018 – Dec 2018 | SCHOOL OF ARTIFICIAL INTELLIGENCE SCHOLARSHIP
Received a two-months full scholarship (valued in 20.000€) to participate at the School of Artificial Intelligence of Pi School. Selected among some of the brightest Engineers in the field, as a scholarship winner, I worked on a project in deep estimation with only monocular vision.

Feb 2017 – Mar 2018 | SELF-DRIVING CAR NANODEGREE
The program contains the next topics: Computer vision, deep learning, machine learning, sensor fusion, localization, control systems and path planning.

It is focused on developing the necessary understanding and technical skills to create an autonomous vehicle able to drive safely in public roads.

2010-2014 | BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATION ENGINEERING - *Specialty in embedded system and Real-Time computing.* Universitat Politècnica de València. (Spain)
Final thesis (A grade): Cross-platform Qt application for the automatic control of liquids tank. QML, C++

2014 SPRING SEMESTER | ERASMUS SCHOLARSHIP
Faculty of Electrical Engineering. České vysoké učení technické v Praze. Prague (Czech Republic)

PROJECTS

- Telegram bot to detect and classify fish species from photos. Telegram API, Python, Tensorflow.
- Autonomous maritime drone. Raspberry Pi, C++, Python, Qt, QML, 3D modeling & printing.
- Vehicle detection & tracking with OpenCV and deep learning approaches. Python, OpenCV, Keras, Machine learning**.**
- Lane detection in the road using computer vision techniques. Python, OpenCV**.**
- Traffic sign identification and classification. Python, Tensorflow, OpenCV**.**

SKILLS

Languages: Spanish: Native | English: Full professional
OS: Development – Ubuntu 18.04
Programming languages: C++, Python, QML, Java and JavaScript.
Control version: Git, SVN, and CVS.
PCB board design: KiCad.
3D Design: Autodesk Inventor, Cura 2.