Oscar Criado

Software Backend Engineer (Python, C/C++, Bash script)

EDUCATION

UPM
M.Sc. in Electronic Systems Engineering
Sep 2017 | Sep 2019

UCM
Physics Degree
May 2014 | Sep 2017

UC3M
Industrial Electronics and Automation Engineering
Sep 2009 - Sep 2014

SKILLS

PROGRAMMING
Python
SQL
C/C++
Bash script
Git, SVN
LaTeX
Matlab

LANGUAGE
Spanish - Motherlongue
English - C1

LINKS

Github - **ocriado91**
Kaggle - **ocriado91**
LeetCode - **ocriado91**

WORK EXPERIENCE

GMV | Intermediate Software Engineer | European GNSS Service Centre
February 2021 - Present

- Leader of NTRIP Caster European GNSS Service Centre development and deployment to facilitate final users connection to Galileo High-Accuracy Service
- Develop team member of *OSNMA*, Open Service Navigation Message Authentication, in charge of Data Analysis Processing.
- Deployment of Jenkins to enable Continiuos Integration.
- Use of Google Tests to development of Unit Tests

GMV | Intermediate Software Engineer | Time and Geodetic Validation Facility
January 2019 – February 2021

- Implementation of *User Ranging Accuracy* algorithm for *European Space Agency*
- Support of new algoritms into bi-weekly checkpoints with clients.
- Improvement of MATLAB performance using optimization techniques.
- Deployment of git version control to integrate CI/CD pipelines.

GMV | Junior Software Engineer | Galileo Reference Centre
August 2019 – February 2019

- Development of KPIs reports
- System validation using bash and Python scripting
- Integration of validation into Jenkins

EDIBON S.A. | Internship Software Engineer
September 2016 – August 2017

- Development of multiple SCADA systems (HW SW) using LabView programming

RESEARCH

OPTOELECTRONICS AND LASER TECHNOLOGY GROUP | UC3M | Undergraduate Research Assistant
Jan 2014 – Jan 2015 | Ithaca, NY
Worked with **Prof Jose Antonio García Souto** develop a Bias-T system to detect partial discharges into electic transformers

PUBLICATIONS

2020 - **Prototyping of Galileo URA Determination with TGVF and Extended Galileo Performance Characterisation for SoL Applications**. *Galluzzo, G., Wallner, S., Pericacho, J.G, Criado, O., García, C., Sobrero, F.J., Brieden, P., Binder, K., Battista, G., Odriozola, M., Nuckelt, A., Joly, D., Canestri, E., Stallo, C., Sgammini, M., Martini, I., Mabilleau, M., Castrillo, N.,* Proceedings of the 33rd International Technical Meeting of the Satellite Division of The Institute of Navigation (ION GNSS+ 2020), , September 2020, pp. 1462-1475.