SOPHIE OMS

Future graduate in microelectronics and computer science engineering, I am an engineer student seeking the role of an Engineer where I can contribute to organizational goals through my knowledge and analytical skills.

CONTACT INFO

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Permit B

LANGUAGES

French : native

English : C1 (TOEFL 106/120)

German : B2 (Goethe Zertifikat)

Spanish : B1 (DELE en janvier)

SOFT SKILLS

- Creativity
- Team work & reporting results
- Customer service skills
- Problem solving
- Autonomy
- Thoroughness

HOBBIES

- Travelling (Europe & South Africa)
- Sport (cross UNSS, 8 years of dancing & 5 years of swimming)
- Participation to 3 French robotics cups (2020-2022)
- Treasurer of a Junior Enterprise
- Head of the Alumni Pole in the Student Council
- Charity (Interact Hoche)
- Harp (6 years)

ACADEMIC BACKGROUND

2020-Present

Ecole Nationale Supérieure des Mines de Saint-Etienne

Master's degree

-Three-year course in Computer Science and Microelectronics, including electronics, robotics, mathematics, physics, finite elements, project managment, life sciences, machine learning, embedded systems, information systems, industrial engineering.

-Option "Biomedical" at the University Carlos III (Madrid) : bioinformatics, computational biology, biomedical applications of nanotechnology, biomedical imaging, bioengineering.

2018-2020

Classe Préparatoire | Lycée Pasteur, Neuilly-sur-Seine

Filière ingénieur PC (Physique-Chimie)

2018

Scientific Baccalauréat | Lycée Hoche, Versailles

Spécialité Physique-Chimie, mention Très Bien (17/20)

EXPERIENCE

Jan 2021-Feb 2021

Development of Machine Learning algorithms

MOSS SAS, joint-venture between Airbus & Thales

In support of a project in the space domain, development and testing of a Machine Learning algorithm to detect satellite manoeuvres. I coded functions and unit tests in Python, used TensorFlow, and did software quality measurement with SonarQube.

Sep 2021-Jun 2022

Internship industrial project

Romeo Sierra Recherche & ENSMSE

Within the framework of a school-enterprise partnership, design and realization of a prototype for an on-board electro-acoustic sensor to measure the speed of a Rafale aircraft.
I designed and manufactured the PCB of the probe, printed the 3D parts of the prototype. I also acted as project manager (organisation, reporting to the client).

HARD SKILLS

- Computer science : Python (NumPy, Scikit-Learn, Pandas, TensorFlow), C, C++, SQL, HTML, UML, JavaScript
- Embedded systems : Arduino, STM32 CubeIDE, FPGA (VHDL)
- Electronics : Design, creation and utilization of a PCB
- Software : Matlab et Simulink, KiCad, Ltspice, Cisco Packet Tracer, Autodesk Inventor
- Desktop tools : Word, Excel, Powerpoint, Adobe, Git, Jira, Trello
- Biomedical : NCBI, ORF Finder, Clustal, sequence alignment and comparison, algorithm for ARN-folding prediction

PROJECTS

- Robot-puddle (follows a target detcted by sonar, includes an ACS)
- Robots that park automatically (broadcast communication between robots through a Zigbee module)
- Connected mirror (capacitive sensor)
- Library information system (UML)
- Programming the decryption of encrypted messages in AES (VHDL)
- Simulation of a wind farm (C) and solar panels (C++)
- Implementation of a rhythm game with the keyboard (System programming, SDL library for the graphic interface)