Paschalidis Ion

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Overview

5th year student in a systems engineering school in Brest, France.

Education

2020-present	**École National d'Ingénieurs de Brest (ENIB):** *Master's degree in systems engineering*
September 2024-February 2025	**Politecnico di Torino:** *Erasmus semester in mechanical engineering*
2005-2020	**Lycée Franco-Hellénique Eugène Delacroix:** Scientific baccalaureate with honors

Experience

August 2024 – September 2024
SEMTEC by DEMINETEC – Freelance
Drafting of an engineering report to study the free spans of an underwater pipeline located in the Bay of Arzew (Algeria) in accordance with the DNV guidelines and written for Semtec (Deminetec Group), carried out as a freelancer.

February 2024 – July 2024
Ifremer Brest, France
Definition, sizing, and prototyping of an active weight adjustment system (ballast) for a resident Autonomous Underwater Vehicle (AUV).

June 2023 – August 2023
Ifremer Brest, France
- Mechanical design (CAD) of a complex photonic system, ensuring compliance with specific constraints.
- Optimization of Kosmos' operating system, an underwater rotating camera in order to simplify and automate various tasks.

January 2022
Poem Brewery Brest, France
Actively involved in the production process and the maintenance of machinery.

June 2021 - August 2021
Decathlon Hellas Athens, Greece
Responsible for customer care, stock management and product presentation.

Projects

September 2022 – June 2023 **Kosmos project**
Work on a submersible rotating camera used for underwater observation in the framework of our Human Sciences course, in collaboration with engineers from Ifremer. This is an open-source project, created in a collaboration between KonKarLab and Ifremer.

Additional information

ASSOCIATIONS

ENIB Student Government: secretary (February 2023 – February 2024)
Participation in the organization of various   events, communication with the university's administration, and solely responsible for conducting the carbon footprint assessment for certain events.

Skills

Through the numerous projects I participated in and the internships I did, I discovered and gained knowledge in the following fields.

Electronics: I became acquainted with the fields of electronics and microprocessors by working on microcontrollers or microprocessors such as *Arduino, Raspberry Pi or STM32 boards*.

Mechanical engineering: I was able to discover and learn to use several software programs such as *CATIA or Inventor*. In addition, I was introduced to industrial design and to the development of complex mechanical systems. Through the Finite Element Method and Material Science class I chose, I discovered the software *Nastran (Inventor), Abaqus and RDM7*. Finaly, the free-span analysis introduced me to the field of fluid mechanics.

Programming: I gained good knowledge in *Python, C and C++.*

Languages

French - mother tongue level (C2)
Greek - mother tongue (and Ellinomatheia C2 holder)
English - fluent (TOEFL with 102/120, TOEIC with 990/990, CPE C2 with 202/230 and IGCSE in literature holder)
German - good (Goethe B2 holder)