THEUNISSEN Mathilde

PhD Student at LS2N laboratory

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Driving license: EU category B

LANGUAGES

French: Mother tongue
English: Advanced, Toeic score: 930
German: Advanced

COMPUTING SKILLS

◊ **Programming Languages**: C, C++, Java, LabVIEW, Python, Arduino, HTML5-Javascript

◊ **Software**: ROS, Gazebo, SolidWorks, MATLAB

HOBBIES

Music: Woodwind orchestra

QUALITIES

◊ Teamwork - Punctuality

◊ Perseverance – Conscientious

◊ Creativity

WORK EXPERIENCE

◊ **PhD STUDENT IN ROBOTICS**
2022-25 – CNRS, LS2N laboratory – Nantes (France)
Researching on heterogeneous multi-robot localization and navigation for long-term infrastructure monitoring.

◊ **REASEARCH INTERNSHIP: ROBOTICIST**
February to July 2022 – Université de Technologie de Compiègne, Heudiasyc Laboratory – Haut-de-France (France)
Developed a collaborative navigation strategy between an aerial drone and several ground robots.

◊ **INTERNSHIP: SOFTWARE DEVELOPER**
Summer 2021 – Instar Robotics – *2 months* **– Île-de-France (France)**
Developed firmware programs and designed a software program to automatically flash microcontrollers.

◊ **INTERNSHIP: INDUSTRIAL DESIGNER**
Summer 2020 – Effidence – *2 months* **– Auvergne (France)**
Designed bent and machine-welded mechanical parts with SolidWorks for robot prototypes.

EDUCATION

◊ **2019-22 Polytech Sorbonne, Engineering Department of Sorbonne University, Paris**

Master's degree in Robotics, with first-class honours

Key courses: Computer sciences, mobile robotics, artificial intelligence, signal and image processing, mechatronics, automation, robotic modelling, experimental robotics

Project work: Improving a prototype of a tomato harvesting robot for the Syha company

◊ **2021-22 double Major, Master ISI - Sorbonne University, Paris**

Master 2: Intelligent Systems Engineering, with first-class honours

Key courses: information processing, human-computer interaction, artificial intelligence, haptic technologies

◊ **2017-19 Polytech Clermont-Ferrand**

Preparatory cycle for Polytech engineering schools

◊ **2016-17 High School Science Diploma**

With first-class honours, **Abitur** German high school diploma

Jeanne d'Arc high School Clermont-Ferrand (France)

PROJECT

◊ **GLOBAL WINNER PRIZE et EMEA FIRST PRIZE**

Altair Global Digital Twin Contest 2021

The aim was to control a Ball Balancing Table in simulation so that a ball on the table traces the outline of a chosen image.