Martin THIRIET

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Education

Master's degree *Saclay*

M2 • CentraleSupelec / Université Paris-Saclay *2023 - present*

MS2SC (Modelization and simulation of structure mechanics and coupled systems). Programme with courses on assembly simulation, vibration simulation in complex systems, physics based model fitting, composite modeling

Saclay

M1 • ENS Paris-Saclay / Université Paris-Saclay *2022 - 2023*

MMS (Materials and Mechanical Structures). Programme with courses in material science, continuum mechanics, fluid dynamics, robotics, propulsion transmission, wave theory.

Saclay

Research Project • ENS Paris-Saclay *2022 - present*

Conception and experimentations on a multi-axes Hopkinson bar setup to test materials under high speed load using high speed thermal, visible light cameras and matlab modelisation.

Undergraduate *Saclay*

SAPHIRE programme - equivalent to a Bachelor's degree in Engineering - ENS Paris-Saclay *2021-2022*

The SAPHIRE programme is an intensive, multidisciplinary course focusing on mechanical, civil and electrical engineering. It aims to train future researchers and professors. Took courses in mathematics, material resistance, numerical analysis, automation, optimisation, probability, robotics and more.

Saclay

SAPHIRE Project - ENS Paris-Saclay *2021-2022*

School project to conceive and build a small scale wooden bridge meant to cross railways during maintenance.

Tours

Classes préparatoires - Lycée Descartes *2019-2020*

Two-year intensive courses preparing for a highly competitive exam for the admission to the French Grandes Écoles

High School *Orléans*

Baccalauréat - Lycée Saint-Paul Bourdon Blanc *2016-2019*

Scientific Baccalauréat (secondary school diploma). Obtained with highest honors.

Experience

M1 • Master Internship (3 months) *Aalto university*

High speed synchronous reluctance motor *2023*

Design of a multi material 3D printed rotor for high speed applications using parametric optimization. Study of the mechanical strength of the rotor using F.E. software.

Vice-president of the student association of the ENS:

Organization of big and small scale events during one year. President of integration week for September 2022. Generated more 350k of investment over one year.

Member of the board of directors of the ENS Paris Saclay:

One year as the interface between students and the school directors to find solutions regarding student happiness, global warming

Head Treasurer and technical member of the school gala:

6 month project to organize the school gala. Management of a 120k budget. Conception of the sound and light system for 1500 people.

Secretary of the sound and lights association of the ENS (Son & Lumens)

Sound engineer on more then two events a week over 2 years for 250 spectators up to 1500 for events types like theater, balls, jazz band, rock band, metal band, live broadcast.

Skills

Computer skills: Python, C++, LaTeX, Matlab, Fortan, Html

3D modeling: SolidWorks, Catia V5, FreeCad, Fusion360, Comsol with Livelink

Quick prototyping: FDM, multi-material powder printing, 3 axis milling, PCB desing

Electrical: Able to work on systemes up to 1000v

Languages

French: Native speaker
English: Advanced (Cambridge C1)

Interest

Sports bouldering, rock climbing, running, swimming, scuba-diving, skiing, trekking, cycling
Sound X32/M32, CL3, LA soundvision and LA network manager
Light GrandMa 3, en QLC+
Music Trumpet, guitar, violin, saxophone, member of the school marching band