



Vincent MARTIN

Third year PhD student

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Born on 02/02/1996

Driving License

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Education

Since November 2019: PhD student in the LaMcube and L2EP laboratories:

Thesis topic: "Additive Manufacturing and Topological Optimization "

Septembre 2016 – Septembre 2019 : Formation d'ingénieur généraliste, École Centrale de Lille

- Electrical Engineering Specialty.

Novembre 2018-Mars 2019 : Research project at Centrale Lille: *Self-Excited Synchronous Generators*

- Simulation of a synchronous machine: Validation and maximization of the energy recovery phenomenon; modification of the rotor for self-excitation; torque quality.

Septembre 2018-Septembre 2019 : Université de Lille : M2 : *Electrical Engineering and Sustainable Development*

Février 2018-Avril 2018 : Research project at Centrale Lille

- Initiation to the world of research in the electrical engineering laboratory of the Ecole Centrale de Lille.

- Study on the subject of the optimization of high power electrical transformation.

2014 – 2016 : Classe préparatoire aux grandes écoles, Lycée François Arago, Perpignan, France

2011 – 2014 : Baccalauréat Scientifique, with honors.

Experience

Avril 2019-Septembre 2019 : Research Internship: Shandong University, Jinan, China: *Optimization of the flux-weakening design of a multiphase PMIM for electric vehicle considering the driving cycle.*

Mai 2018-Août 2018 : Engineering internship : EDF EDVANCE : Command and Control, EPR Flamanville3 Project

Elaboration of a methodology for the verification of logical modifications and various works within the control system (data comparison, monitoring of modifications, search for inconsistencies)

Novembre 2017-Avril 2018 : Bi-weekly tutoring and support in math and physics with a senior student

Septembre 2016-Janvier 2018 : AP2A project "Helping people in loss of autonomy" conducted in a team of seven

- Design and manufacture of a mobility solution in the form of a motorized and intelligent walker
- Personal contribution: Dimensioning of the motor and battery part (torque, power and autonomy); Parts modeling in CAD; machining and assembly of the prototype; Study of the need and feasibility, interview with the collaborators.

Mars 2016 – Mars 2017 : Student Association, Arts Office Responsible for opera and concert partnerships

- Selection and promotion of different musical performances for Centraliens students
- Organization and animation of cultural events for the student community
- Intense technical and logistical participation during a ten-day campaign to be elected BDA

Janvier 2016 – Février 2016 : One month internship at CERP Rouen Répartition

- Initiation to stock management and supply chain in the pharmaceutical field
- Handling, preparation of drug orders and participation in the delivery chain in 12 hours
- Writing of an internship report and a sociological analysis of the company "Relationship of the actors to the new work tools"

Skills

Anglais Conversational- **Espagnol** B1/B2 - **Allemand** Beginner

Computer Edition: Suite Office, Catia, Fusion 360, Onshape, Cura, Opera-2D/3D, Photoshop, Premiere pro, FL Studio

Algorithms and coding: VBA, Python, SQL, Matlab

Interests

Music and editing : Piano, guitare, Computer Assisted Composition, Amateur Video Contest

Sport : Climbing, Gymnastics, Sailing, Running

Electronics : Realization of electronic circuit, Manufacture of drones, 3D modeling and various creations (3d printer, woodworking, FabLab)