

OBJECTIVE

Graduate student in Aerospace Engineering (B.Eng. Mechanical Engineering), with experience in the automotive and technology consulting industries and multiple academic engineering projects. Looking for opportunities to gain further industrial experience in 2020-2021.

EDUCATION

- 2019-2021 **GEORGIA INSTITUTE OF TECHNOLOGY** *Atlanta, U.S.A.*
M.Sc. Aerospace Engineering
Courses: Aircraft Design, Advanced Design Methods, Fracture Mechanics, Rotorcraft Aerodynamics, Linear Systems and Control, Wind Engineering
Metz, FRANCE
- 2016-2019 **TRINITY COLLEGE DUBLIN** *Dublin, IRELAND*
B.Eng. Mechanical Engineering (II.1 Honours, UK Grading)
Courses: Materials, Manufacturing, Project Management, Thermodynamics, Multibody Dynamics, Solid Mechanics, Fluid Mechanics, Control Engineering
GRE: 160 – Verbal, 158 – Quantitative, 5 - Analytical

PROFESSIONAL EXPERIENCE

- 2018 **JAGUAR LAND ROVER** *Coventry, U.K.*
12 weeks **Technical Intern – Electric Drive Units**
➤ Worked with the Electric Drive Unit team for the first prototype build of a new unit
➤ Performed data analysis for component optimization, using Monte Carlo simulations and assembly tolerance stacks
➤ Simulated loss predictions on bearings, and benchmarked competitor data
- 2018 **Joint Intel Corporation and Trinity College Dublin Programme:** *Dublin, IRELAND*
Top 10 Awardee (model based problem solving, lean manufacturing, DoE)
- 2017 **ADAPT CENTRE (SCIENCE FOUNDATION IRELAND)** *Dublin, IRELAND*
10 weeks **Research Intern – EU Projects Team**
➤ Analysis of researcher datasets, with aim of optimizing centre strategy with regards to project selection. Gained academic writing and interviewing experience.
- 2015 **IBM IRELAND** *Dublin, IRELAND*
10 weeks **Research/Technical Intern – Software Group**
➤ Contributed to technical writing on proposals for EU research frameworks, specifically for applications in Fintech, healthcare, telecom.

PROJECTS

- 2019-20 **Aircraft Design (Georgia Institute of Technology):** [1] Advanced design methods including DoE, RSM, and TIES methodology applied to future aircraft design [2] Excel based calculator executing constraint and mission analysis for fixed wing aircraft
- 2019 **Undergraduate Thesis (Trinity College Dublin):** Assessing capability of commercial pressure sensors to measure intramuscular pressure under variable loading

SKILLS AND EXTRACURRICULARS

Languages: English (native); French (intermediate); German (beginner); Bengali (native); Hindi (fluent)

Software: SolidWorks, MATLAB, ANSYS, AutoCAD, Ricardo SABR, MS Suite, Python (beginner)

Sports: Bujinkan Budo Taijutsu (Japanese martial art, 3rd kyu ranking); Tennis (8 years)

Others: (2019) Private tour guide in Dublin with international tour operator City Unscripted
(2019) Speaker at STEM career talks to secondary school students in Dublin
(2015-16) Chairperson of ENACTUS team at Technological University of Dublin
(2015-16) Student facilitator for RoboSumo workshops for secondary school students