Manufacturing Engineer

engineer@mit.edu +1 (617)XXX-XXXX

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY • CANDIDATE MASTER OF ENGINEERING IN ADVANCED MANUFACTURING AND DESIGN (CAMBRIDGE, MA) **SEPT 2021 – PRESENT**

- Courses include: Introduction to Manufacturing systems, Manufacturing Process Control, Management for Engineers, Supply Chain Planning, Design and Human Systems Engineering.

ARTS ET MÉTIERS INSTITUTE OF TECHNOLOGY • BS AND MS IN INDUSTRIAL ENGINEERING (PARIS, FRANCE) **2019 – PRESENT**

- Courses: Industrial Organization, Mathematics, Computer Science, Probabilistic and Statistics, Product Design, Information Systems and Optimization, Operational Excellence, Digital Control Systems.

LYCEE D'EXCELLENCE • *CLASSES PREPARATOIRES AUX GRANDES ECOLES* (BEN GUERIR, MOROCCO) **2017 – 2019**

- Top-ranking *CPGE* | Highly intensive program in Mathematics, Physics and Engineering to prepare for the competitive national exams for admission to the French/Moroccan Engineering Schools.
- Ranked 34/1400 in the national French exams.

INTERNSHIPS & PROFESSIONAL EXPERIENCE

MAGMA TECHNOLOGY* • SUPPLY CHAIN INTERN *(PARIS, FRANCE) **JUN 2021 – JUL 2021**

- Collaborated with Viapost to optimize their logistics assets management by 55% using data generated by asset tracking.
- Advised other clients (L'Oreal, Safran...) on their logistics strategies based on their past months results to reduce costs.
- Established a platform to manage urgent clients' requests and improve feedback which increased client's satisfaction rate by 25%.

AMAZON* • OPERATIONS INTERN *(LYON, FRANCE) **JUN 2020 – JUL 2020**

- Improved the site's working safety by 72% by putting in place safety strategies to reduce workplace accidents while still reaching daily orders' processing goals.
- Held daily meeting with managers to report and strategize on my team's performances and challenges.
- Assisted the process of automating internal sorting site and evaluated the return on investment of the project.

SELECTED SCHOOL & EXTRACURRICULAR PROJECTS

AI POWERED VISUAL INSPECTION FOR MANUFACTURING • ARTS ET MÉTIERS INSTITUTE OF TECHNOLOGY **FEB 2021 – JUNE 2021**

- Worked with a team of 3 Teamwork on a project proposed by Valeo and ENS Paris (École Normale Supérieure) to detect the presence of defects on parts based on pictures taken during the production of a power module.
- Defined a final model using convolutional neural network with 31% more efficiency than the current automatic optical inspection used by Valeo to discriminate between good and bad parts for aspect defects.

THE AIRPLANE BRAKE SYSTEM DESIGN PROJECT • ARTS ET MÉTIERS INSTITUTE OF TECHNOLOGY **SEPT 2020 – JAN 2021**

- Lead a team of 5 students to engineer an operational hydraulic brake system of a light airplane.
- Designed of the structure of the brake system in *Catia V5* while optimizing space and material cost.
- Computational analysis of the different components and Bond graph modelling in 20Sim.

LEADERSHIP AND VOLUNTEERING

***ON CAMPUS IET* (INSTITUTE OF ENGINEERING AND TECHNOLOGY) • COMMUNICATION MANAGER (PARIS)** **JUNE 2020 – JUNE 2021**

- Worked with a team of 4 to organize the On Campus Day: large hackathon bringing together several companies (Vinci, Assystem…) and all 200+ *Arts et Métiers* students to solve real-world problems.
- Organized the "High school tour": tour underprivileged high schools to encourage minority students to pursue STEM studies.

***GASOLE* HUMANITARIAN STUDENT ORGANIZATION • TEACHER AND MEMBER (PARIS)** **SEPT 2019 – JUNE 2020**

- Tutored French and Mathematics to teenagers from immigrant backgrounds to break down the social and academics barriers they face as immigrants.
- Organized food banks, distribution of food and warm clothing to the homeless, fundraising to help a Senegalese village get through the COVID sanitary crisis.

ELLES BOUGENT ASSOCIATION • ORGANIZER FRANCE SEPT 2019 – JUNE 2020

- Organized events to attract female high school and college students to engineering studies and professions.

COMPUTER SKILLS

- Proficient in **MS office, Python, Catia**
- Comfortable with **MySQL, SolidWorks, Matlab, VisualBasic, Arduino**

LANGUAGES

- FLUENT IN **ARABIC** AND **FRENCH**
- ADVANCED IN **ENGLISH**
- INTERMEDIATE IN **SPANISH**