# Alin-Andrei Hemeci

## Mechanical Engineering Graduate (The University of Manchester)

Hi, I'm Alin, an ambitious Mechanical Engineer focused on efficiency and results. Due to my involvement in Engineering, Tech and Financial industries from an young age, I have successfully achieved superior problem-solving skills and a critical thinking along a creative and team-work oriented mentality.

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## WORK EXPERIENCE

### Mechanical Design Engineer
ALTEN Group UK

*06/2023 - Present*                    *Coventry, United Kingdom*

*Achievements/Tasks*

- **Design mechanical components and systems** using CAD software and other design tools.
- **Conduct engineering analysis** to ensure designs meet performance, safety, and regulatory requirements.
- **Conduct design and performance reviews** with suppliers and vendors to ensure component and system performance meets requirements.

### Mechanical (Harness) Design Engineer
Bertrandt Group

*07/2022 - 05/2023*                    *Bucharest, Romania*

*Achievements*

- **3D conception of electrical wiring harness** for automobile development in **CATIA V5 or V6**
- Analysis of functional **architectural diagrams** and **dimensioning** of wire harness systems
- **Data management** and tracking of wire harness standards, characteristics, and product complexity
- **Create 2D** wire harness drawings

### Personal business
mystocks.ro

*06/2020 - 01/2023*

*This one represented my online mentoring platform where I've worked with over 120 clients and generated over 1500 downloads for a Digital Product.*

*Achievements*

- Team coordination and **management skills**
- Getting a marketing and sales sense
- Learning how to deal with **customers' concerns**

## EDUCATION

### Bachelors in Mechanical Engineering
The University of Manchester

*09/2019 - 06/2022*                    *Manchester, United Kingdom*

## SKILLS

Python | Django | JavaScript | React | NodeJS
HTML/CSS | JIRA | Matlab | Solidworks | CATIA

## PROJECTS

Developer Projects

- **FACE-DETECTION-APP:** I created the Frontend of the app using **JavaScript with React** and implemented an **artificial intelligence API** that scans faces from any pictures by pasting its link. I also created the **Backend (server) with NodeJs and ExpressJs,** which is linked to the **database made with PostgreSQL** that stores registration information of every user of the app. The app was deployed using Heroku. (can be found on my **Github**)
- **Python:** used in Data Analysis projects such as: Web Scraping specific data from websites and storing them using SQL database.
- Also, I've done from Full Stack Web developer course **THE ODIN PROJECT** and **ZERO TO MASTERY.**

Design of a Firefighting Device

- The project was about **designing a modern, innovative and ecofriendly Firefighting Device** using **Solidworks** skills, taking into consideration criterias as price, dimensions, ways of operations.

Design, Manufacture and Test of a Vehicle

- This project was about **designing a vehicle** in **Solidworks** which subsequently was **manually manufactured** by me and my University team and **tested** in real life by its potential to travel on an incline plane.

Dissertation (Renewable Energy)

- **Dissertation Topic:** Analysis of Marine Biomass Resources Pontential from UK waters in Energy Production.
- In order to achieve this subject it was conducted a literature review based on **analysis of techno-economic sectors** , comparisons, such as **efficiency**, **climatic impact**, **conversion processes,** between fossil fuels and biofuels.

## CERTIFICATES

### ECDL PROFILE CERTIFICATE
*Presentation , Using of **Databases** , **Spreadsheets** , **Word** Processing, Online Essentials, Computer Essentials*

### ORACLE ACADEMY
*Database Design and Programming with SQL*

### IELTS
*Test of Academic **Reading** , **Writing** , **Listening** and **Speaking English** Modules*

## LANGUAGES

Romanian
*Native or Bilingual Proficiency*

English
*Full Professional Proficiency*