

**Odysseas Bouziotis**  
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## **PERSONAL PROFILE**

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I am a highly motivated and hardworking mechanical engineering student, looking to specialize in the field of robotics. I have a strong background knowledge of engineering and looking to broaden my horizons. I am proactive and constantly seeking new challenges to learn and develop my skills.

## **EDUCATION**

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**BEng in Mechanical Engineering** Sept. 2020-July 2023

University of Birmingham, West Midlands, UK.

**Bachelor's Thesis:** Robotics for Medical Device Inspection.

Academic Supervisor: Dr. Amir Hajiyavand.

**Short Description:** This project is focusing on developing robust approaches to tackle challenges faced in automating the manufacturing of medical devices and inspecting them using Artificial Intelligence and robotics. The project will develop and implement smart kinematics for robotic manipulation and inspection of a medical device using robotic capabilities.

**Representative Modules:** Engineering Mathematics, Electrical Engineering, Engineering Materials, Introduction to Computing for Engineers, Integrated Design Project, Mechanical Design, Mechatronics and Control Engineering.

## **ACADEMIC EXPERIENCE**

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**Integrated Design Project 1B** Feb 2021-May 2021

A group design project of an electric-powered train to do a small tour around the university campus.

**Mechanical Design A** Sep 2021-Dec 2021

A group project to design a small two-stroke compression ignition engine for an unmanned aerial vehicle.

**Integrated Design Project 2** Feb 2022-Mar 2022

A group design project in collaboration with students from all disciplines, to design a Direct Air Capture (DAC) facility responsible to capture 5000 metric tons of carbon dioxide.

**Mechanical Design B** Sep 2022-Dec 2022

A group project to design a speed reduction gearbox for a Wankel Engine for an unmanned aerial vehicle.

## **EXTRACURRICULAR ACTIVITIES**

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-Member of University's Formula Student team (UBRacing) and attended the MATLAB sessions.

-Participated in various workshop trainings hosted by the University and operated the lathe, and 3D printed a small component.

-Valuable member of the University's basketball team, currently competing in Midlands Tier 4 league.

-Participated in Greece's national mathematics and chess competitions and obtained awards.

## **LANGUAGES, INTERESTS AND SKILLS & CERTIFICATIONS**

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**Languages:** Greek (Mother Tongue), English (C2 level) and German (B1 level).

**Interests:** Robotics, Coding, Computer Science and Mathematics.

**Skills & Certifications:** SolidWorks, Autodesk Fusion 360, C, Python, MATLAB, CodeBlocks, CES EduPack, Ansys Workbench, ABAQUS, MS Office and LaTeX.