

Aditya Prakash Bhagchandani

Senior Robotics & Automation Engineering Student

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I am a highly motivated Robotics and Automation Engineering student with a strong foundation in robotics, algorithm development, and practical implementation. I am currently pursuing a bachelor's degree in Berlin, with a focus on developing a lightweight machine learning model for road surface deterioration detection. Seeking an internship opportunity to contribute to innovative research, gain valuable practical experience in simulation, coding, building, and design, and collaborating within a dynamic and challenging environment.

Education

Bachelors in Robotics and Automation Engineering | German International University (GIU) - Berlin Campus

Am Borsigturm 162, 13507, Berlin, Germany

October 2023 - Ongoing

- Member of the CPS Team in the University
- Relevant Coursework: Industrial & Parallel Robotics, Robot Kinematics, Control Systems, Introduction to Networks, PLC, and Project Management
- Relevant Projects: creating a maze solving robot which uses overhead cam to find the path, using JIRA for Project Management, simulating 3RRR parallel robot, Simple Gearbox in SolidWorks and Simulating and controlling 3 DOF robotic arm.
- BSc Thesis: Road Surface Deterioration Detection Using AI, ITS and IoT under Supervision of Dr. Amr Talaat and have received A+
- Current GPA: German GPA 1.54 (A-)

Bachelors in Robotics and Automation Engineering | German International University (GIU) - Egypt Campus

Regional Ring Rd, East Cairo, New Administrative Capital, Cairo, Egypt

September 2021 - Ongoing

- Relevant Coursework: Computer Science, Mechanics, Mathematics, Electronics, Software Eng. And Microcontroller
- Relevant Projects: Material Testing Simulation using Ansys. Making a modified version of snake and ladders Game in C++, Creating an Obstacle avoidance RC car using Arduino, Created Multi-user University Portal using JavaScript NodeJS and PostgreSQL, made a 3-story miniature elevator using atmega32 and, Simulation of man standing on hoverboard in MATLAB.
- Current GPA: German GPA 2.06 (B)

Experience

Event Coordinator and Receptionist | Egypt Booth – ITB 2024 Berlin

Berlin, Germany

March 2024

- Coordinated Schedules: Assisted the Minister in managing schedules, ensuring prompt meetings, and organizing official appointments.
- Receptionist Duties: Functioned as a receptionist, addressing inquiries from visitors and providing information about Egypt's tourism offerings.
- Booth Support: Collaborated with the team to support booth operations, including IT support, inventory management, and other logistical tasks.

Mechanical Team Leader | Techademics Club

Cairo, Egypt

January 2022 - October 2023

- Led a team of Mechanical Engineers in designing, building, and testing robots for competitions such as Metal Monster and Minesweeper
- Managed project budget and timelines, ensuring efficient resource allocation.
- Developed effective communication, leadership, and teamwork skills.

Junior Teaching Assistant for Technical Drawing | GIU – Egypt Campus

February 2023 - June 2023

- Aided students and teachers with various tasks and activities related to technical drawing.
- Enhanced teaching skills and communication abilities.
- Helping TAs and Prof. during monitoring of the examinations

Projects

- Built a custom requested WhatsApp Sending Automation using python for sending employees.
- Built a custom requested company-wide bell application for notifying employees.
- Building 3d Printers and Laser Engraver

Volunteering, Achievements and Certificates

- Ranked 28th Minesweeper 2022 - Techademics Club
- Ranked 16th Minesweeper 2023 - Techademics Club
- Ranked 2nd Metal Monster 2023 - Techademics Club
- Tutored school students in multiple subjects, enhancing their understanding and academic performance.
- Python, JS, and Machine Learning – Purple Tutor
- Ushering for IEEE ITSS Berlin conference 2023
- Ushering in Indian Community Association in Egypt (ICAE) events as organizing member

Skills

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|---|------------------------------|---|
| • Photo & Video Editing | • CAD software | • Programing Languages: C++, python, JS, and C# |
| • Event Management | • MATLAB, Simulink, Simscape | • ROS |
| • Machine learning: PyTorch, Darknet and TensorFlow | • PLC fiddle | • Arduino IDE |
| | | • LTSpice |

Languages

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| • English - Fluent | • Hindi - Native | • German – Beginner | • Arabic - Intermediate |
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