



AYUSH MUKHERJEE

Mechanical Engineer / Ernst & Young LLP

EDUCATION:

- Master's in Project Management started in 2025 at University College Dublin Michael Smurfit Global Business School.
- Mechanical Engineering Graduate in 2023, Trinity College Dublin, the University of Dublin, Ireland (2019-23), *Thapar-Trinity (2+2 years International Engineering Program)*
- Studied Computer Engineering (upto Second Year), The University of Hong Kong, Pok Fu Lam Road, Hong Kong, Hong Kong. (2017-19).
- Passed Class-XII Board Examinations (2017) - Obtained an average of 92.80% marks.
- Passed Class-X Board Examinations (2015)- Obtained Grade 'A1' in all subjects with overall CGPA 10.0/10.0.

SKILLS:

- Programming Languages (C, C++, Python, shell script)
- Designing Softwares (AutoCAD, SolidWorks, Creo, Simscale, GStarCAD)
- Engineering Tools (Arduino, Raspberry Pi)
- Safety and Compliance (Understanding of safety protocols and compliance standards, relevant for EHS applications, Knowledge about ISO standards and requirements)
- Mechanical concepts (Material behaviour, concepts, CAD, structures)
- MATLAB (Intermediate mathematical equations and simulations)
- Analysis work (Highly interested in Research and Analysis related jobs)
- MS Office (Word, Excel, Power point)

PERSONAL INFORMATION:

Date of Birth: 15th October 1998
Nationality: Indian
Home Address: #132, Doctors' Apartments
C-4, Vasundhara Enclave,
Delhi – 110 096, **India**
Present Address: # 873, Tower 8
ATS Village
Sector 93A, Noida - 201304
Uttar Pradesh, **India**
Phone: +91 90044 26071
e-mail : amukherj@tcd.ie;
amukherj98@gmail.com;
iamayush501@gmail.com
Linked-In: <http://linkedin.com/in/ayush-mukherjee-49666a146>

PROFILE:

- Mechanical Engineer. Works in Ernst & Young LLP (EY), Mumbai, India as an Analyst.
- Key interest area centers around Energy Transition & Decarbonisation efforts driving towards net zero.
- My dissertation paper in the final year of Engineering involved desktop research on Hydrogen fuelled Internal Combustion Engines for Heavy Duty Vehicles. Researched on whether a hydrogen IC Engine (HICE) requires air-boosting such as turbo boosting, supercharging or the integration of concepts like EGR (Exhaust Gas Recirculation) and their effects on power delivery and efficiency.
- Possesses other work experiences and undergone internships.

WORK EXPERIENCE:

2025

- **Analyst at Ernst and Young LLP (EY), Mumbai, India**
2024 – 2025

Currently involved in two different projects:

- i. ESI Review (Fraud Investigation): Assisted the team and finally took lead role in investigating employees of clients that client is suspicious of committing fraud in their company. This also involves client interaction, formal presentations and updates for accurate delivery of project.
- ii. Construction team: Assisting the team with delay claims, variation, contractual claims, arbitration. This also involves client interaction, formal presentations and updates for delivery of a project.

2022

- **Crew Member at Subway, Carrickmines, Dublin 18, Ireland**
3rd Year in Trinity College, Dublin - 2022

Was responsible for customer interaction, closing the till and handling the finances at the end of day (closing), time and delivery management during rush hours.

INTERNSHIP EXPERIENCE:

2023

Contec-Bulk Solutions Private Limited, Haryana, India

Internship in the Design & Engineering Team of the firm.

- Designed different idlers for a conveyor belt system (2D).
- Designed head-frames, tail-frames and assembled all drawings into a single conveyor belt system and grouped them (2D).
- Block editing.
- Designed elevated conveyors and horizontal conveyors (2D).
- Understood the process of product development in an organization and importance of communication and feedback between departments and clients.

2021

AUDI

- **Internship** at Servicing Centre Workshop.
- **Internship** at Body-shop Workshop.

EXTRA CURRICULAR EXPERIENCE:

2019, 2018

AIESEC, Hong Kong

- Completed 5 weeks' (from 29th June to 3rd August 2018) of Internship program as part of Discover schools in Covasna project organized by AIESEC **Brasov, Romania** (As a student at The University of Hong Kong).
- As a Global Volunteer, responsibility included spreading cultural awareness through activities, involving 5th to 9th grade students in Covasna. Taught English, conducted classes through interactive creative programs & games and developed art related skills.
- Literary Society & Street Play Experience (Year 2019-2020)
- Was a Convener for two semesters (1st year second semester and 2nd year first semester).
- Have been actively involved in many plays, in lead roles. Performed street plays with the team.
- Researched and constructed Arduino based projects (Object avoiding 4x4 car, Password keypad unlocking system) in 2019
- Built a facial recognition software using Raspberry Pi system and other IoT based systems in 2019
- Write Short stories
- Love to cook and listen to music

INTEREST AND HOBBIES:

LANGUAGE PROFICIENCY:

- Excellent skill in **English** in speaking, writing and reading
- Excellent skill in **Hindi** in speaking, writing and reading
- Mother tongue is **Bengali**