

# KOUSHEEK CHAKRABORTY

ROBOTICIST | MACHINE LEARNING ENGINEER

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## SKILLS

- **Programming Languages**
  - Python
  - C/C++
  - Matlab/Simulink
  - Arduino
- **Computer and Digital Skills**
  - Autodesk Fusion 360
  - 3D printing
  - Git
  - Latex
- **Libraries and Frameworks**
  - ROS
  - OpenCV
  - Pytorch
  - Numpy

## LANGUAGES

- English (Fluent)
- French (Fluent)
- Bengali (Native)

## INTERESTS

- Author of personal project blog
- Organiser of annual science fair during college
- Physical education - gymnastics, athletics, aquatic sports and games (football, basketball, volleyball, hockey)

### My Portfolio



## EDUCATION

### MSc Robotics and Transport

**Ecole Centrale de Lille, Polytech Lille**

Sep. 2022 - Present, Lille, France

### BSc Mathematics and Computer Science

**Sri Aurobindo International Centre of Education**

Dec. 2018 - Oct. 2021, Pondicherry, India

- Prize for Academic Excellence
- Topper in Introduction to Robotics Course – Rank 5 – NPTEL
- Thesis - Foothold Estimation on Uneven Terrain for Legged Robots

## EXPERIENCE

### Research Intern

**TU Darmstadt, Intelligent Autonomous Systems**

Aug. 2020 - Aug. 2022, Darmstadt, Germany

- Developed a C++ based API to control industrial manipulator arms from ABB and Franka Emika
- Drafted a patent application for visual robot programming
- Led the design and prototyping of an embedded hand-mounted system to track the orientation of a robot operator's hand
- Designed a 3D viewport using Unity to visualize and simulate robots
- Integrated the Unity environment with Microsoft's .NET Core for an industry grade application

### Robotics Engineer

**Transasia Bio-Medicals Ltd.**

Jul. 2022 - Sep. 2022, Bangalore, India (remote)

- Developed a C++ based inverse kinematics and dynamics library for medical manipulator arms
- Calibrated a stereo vision system for medical imaging and built a software pipeline to interface with the system

### Co-Author of Technovation

**Project Blogger** - instructables.com/member/Technovation

Dec. 2024 - Present, Pondicherry, India

- Published over 30 articles about the development process of various projects in the fields of design, digital fabrication, electronics, and computer science
- Amassed over 1.5 million views on the page
- Winner of 23 contests hosted on instructables.com