

# Chandak Chakma

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## EDUCATION

### University of Dhaka

*B.Sc. in Robotics and Mechatronics Engineering;*

Dhaka, Bangladesh

*Oct 2022 – Present*

### Rangamati Govt College

*Higher Secondary Examination;*

Rangamati, Bangladesh

*July 2019 – Dec 2021*

## SKILLS

**Programming Languages:** C/C++, Python, JavaScript

**Core Computer Science:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems

**AI and Math:** Machine Learning, Deep Learning, Reinforcement Learning, Linear Algebra, Probability and Statistics

**Robotics Technologies and Tools:** Git, ROS2, Gazebo, Raspberry Pi, OpenCV

**Hardware Skills:** Soldering, Desoldering, Hardware Integration, Embedded Systems

## EXPERIENCE

### University of Dhaka

*Research Student, Robotics Lab*

Dhaka, Bangladesh

*April 2025 – Present*

- Working under the supervision of Dr. Sejuti Rahman on Deep Reinforcement Learning and ROS 2-based simulated robotic environments.
- Designing, training, and evaluating agents for robotic control in custom simulation setups.
- ✔ Active Codeforces problem solver for 3 years, developing strong algorithms and coding proficiency

## SELECTED AWARDS & ACHIEVEMENTS

- 🏆 **2nd Runner-up**, Datathon Bitfest, A Machine Learning Competition – 2025, KUET
- 🏆 **28th**, Battle of Brains 2023, University of Dhaka
- ✔ Participation Certificate, **LINE FOLLOWER ROBOT - 2023**, IUT
- ✔ Participation Certificate, **SOCCER BOT - 2024**, BUET Automobile Club

## PROJECTS

### Hand Gesture Controlled Wheelchair

- Designed and implemented a gesture-based wheelchair control system integrating Arduino and IMU sensors to enhance mobility accessibility.

### Smart Audio Book (OOP Project)

- Built an audio book application with user-friendly smart playback.