Krishnasya Arush Tadikonda | **190100066**
Electrical Engineering | **B.Tech.**
Indian Institute of Technology, Bombay | **Gender: Male**
DOB: 20-03-2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	

Pursuing Minor degree in **Computer Science and Engineering**

Scholastic Achievements

- Obtained **merit-based** change of branch to **B.Tech , Electrical Engineering** (11 out of 1100+ students) *(2020)*
- Secured an All India Rank of **966** in JEE Advanced out of 0.2 million candidates *(2019)*
- Awarded **AP** grade in **CH107(Physical Chemistry)** for academic excellence (25 out of 1100+ students) *(2019)*

Positions Of Responsibility

Department Academic Mentor | Department of Electrical Engineering *2021-22*
A group of 40+ well rounded students who guide incoming sophomores academically

- Mentoring **4 sophomores** to help them with academics, time management and extra-curricular endeavours
- Involved in the revamp of **D-AMP blog** which consists of extensive course reviews and database of internships

Teaching Assistant | IIT Bombay *Jan 2021 - June 2021*
MA 108 (Ordinary Differential Equations) , CH 107 (Physical Chemistry)

- Conducted weekly **tutorial sessions** to explain concepts through applications for a batch of **40+ freshman**
- Provided assistance to the course instructors in **logistics** and in organizing proctored examinations

Technical Experience

Design Engineer (ECU, CAN & DAQ) | IIT Bombay Racing *May 2021 - Present*
*An active team of **80 students** with the goal of building an **Electric Vehicle** for **Formula Student UK** , a reputed race car design competition organized by Institution of Mechanical Engineers*

- Working on implementing **Telemetry Analysis** in our car using wireless data transfer and data processing.
- Developed an interactive **Python** based GUI using **Tkinter** which runs with **MATLAB** in backend to generate real time plots
- Responsible for **mentoring** Junior Design Engineers of ECU, CAN & DAQ subsystem

Junior Design Engineer (CAN, DAQ & DASH) | IIT Bombay Racing *September 2020 - April 2021*

- Tested the working of **Controller Area Network** (CAN) using **Arduino UNO** and **MCP 2551** transceivers.
- Part of a 16-member contingent representing our team in **FSEV** competition by Formula Bharat
- Worked on **Software Integration Report** and **Procurement Report**
- Involved in **selection** and **programming** of DASH display
- Guided **13 trainees** in learning about ECU and CAN subsystems

Tetris Game *April 2021*
Course Project | Prof V. Rajbabu , IIT Bombay

- Programmed the popular game Tetris on the **Atmel AT89C51** Micro-controller with an **LCD Module**.
- Coded the micro-controller in **Embedded C** using **Keil μVision** and **Flip softwares**
- Used **UART** Module and **RealTerm** software for interfacing between a keyboard and micro-controller.
- Utilized multiple **Interrupts and Timers** for block movement , **Linear-Shift Feedback Register** for pseudo-random block generation.

Extra Curricular Activities

- **MOOCs** - Python Data Structures , Data Science (Computation thinking with Python , Inferential thinking through simulations, Machine Learning and Predictions) *2021*
- Completed a year-long training in **Kho-Kho** through National Sports Organisation(NSO) *2019*
- Made a pitch for a **social entrepreneurship case study** at EnB Buzz - organised by E-Cell , IITB *2019*
- Awarded **High Distinction** in **Australian National Chemistry Quiz** (ANCQ) *2016*
- Represented Timpany School at **National Level Spell Bee** conducted by **WIZ** *2013*
- Achieved **Distinction** in Mathematics and Science assessments conducted by **The University Of New South Wales, Australia** multiple times *2011-2013*
- Received **Championship** in the 18th National Abacus Competition - Brainobrainfest *2011*