ADITYA GOSWAMI

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EDUCATION

University of Maryland   **College Park, MD**

M.E. in Robotics Engineering   GPA: 3.6   **Expected May 2021**

Robotic Modelling, Controls of Robotics Systems, Computer Linguistics-I

Maharshi Dayanand University   **Haryana, India**

B.Tech in Computer Science & Engineering   First Class   **July 2017**

TECHNICAL SKILLS

Software/Technologies: Python, C/C++, C Embedded, LISP, MATLAB, ROS (Robot Operating System), Linux (Ubuntu), SQL, Visual Studio, VHSIC Hardware Description Language, Fritzing

Hardware: ATmega 8, 16, 32, 2560, 8051 Family, Arduino, Raspberry PI, Tiva C Series TM4C123G LaunchPad, Texas Instruments' MSP430 Launchpad, CC3200 (Wi-Fi Family) Launchpad

RELEVANT EXPERIENCE

Teaching Assistant Intern   **Noida, U.P., India**

Ardurobo Infotech Pvt. Ltd., Noida   **June 2018 - December 2018**

- Taught as assistant Faculty in C, C++ and directed Several High School and College Robotic Projects on various platform like Arduino, ATmega 8, 16, 32, 2560, and Texas Instruments launchpads.

Technical Activity Coordinator   **New Delhi, India**

IEEE Delhi Section Student Network   **June 2016 - August 2017**

- Organized several events, seminars and workshops related to technical background, startups and entrepreneurial cell, and IEEE awareness in STEM.
- Coordinated with Corporations and organizations (Google, Microsoft, Grace Hopper Anita Borg., IEEE, WIE) in their initiatives and projects.

RESEARCH PAPER

NCABTA 2015 National Conference   **Haryana, India**

- Presented a research paper on 'Human Computer Interaction' along with co-authors Ankit Sharma and Ankit Kumar

PROJECTS

Explorer Bot, Team Leader   **Haryana, India**

Final Undergrad Project   **January 2017 - June 2017**

- Replicated Curiosity Mass Rover on a smaller scale. Using ROS (Robot Operating System) for localization and navigation and radio modules to transfer data b/w the station and robot. Used Raspberry Pi for identifying and taking images.

Smart Street Lamps   **Haryana, India**

Mid-term Project   **August 2015 - December 2016**

- Developed a smart streetlamps model on a smaller scale by using 8051 family microcontroller and IR sensors to sense the vehicle prototypes, a power saving model of streetlamps was developed.

Puzzle Solver Robot with Mechanical Arm,   Team Leader   **Haryana, India**

E-yantra National Robotics Competition 2015   **October 2015 - February 2016**

- Imitated an Inventory Management Robot on a smaller scale by used Image Processing for reading of the puzzle/Inventory map.
- Traversed a grid/map form starting point to different destinations using a mechanical Arm to pick/drop objects, which secured us 10th position in e-Yantra National Robotics Competition 2015 organized by IIT Bombay.