Aman Chandra

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY
B.Tech + M.Tech in Biotecnology
Sophomore
Expected April 2020 | Kharagpur, India
Cum. GPA:7.13/10.0

ST. MICHAEL'S HIGH SCHOOL
All India Senior School Certificate
Grad. April 2015| Patna, India
Performance:95.6%

ST. XAVIER'S HR. SEC. SCHOOL
Certificate of Merit
Grad. April 2013| Bettiah, India
CGPA: 10.0/10.0

LINKS

Github:// **amanchandra333**
LinkedIn:// **amanchandra333**
Robotix:// **team**

COURSEWORK

Programming & Data Structures
Partial Differential Equations
Control of Mobile Robots (Coursera)
Robotics: Aerial Robotics (Coursera)
C++ for C Programmers (Coursera)
Intro to Java Programming (Udacity)
Developing Android Apps (Udacity)
Microbiology
Biochemistry
Biochemical Reaction Engineering and Bioenergetics

SKILLS

Robotics
ATmega • Arduino • Raspberry Pi • ROS

Programming Language and Environments
C • C++ • Python • MATLAB • LaTeX• GIT • Java • HTML

Others
After Effects •SolidWorks •Android Studio

CO-CURRICULARS

Eloquent Speaker • Avid Qiuzzer • Table Tennis at hobby level

PROJECTS

AERIAL ROBOTICS KHARAGPUR | Control Systems and Embedded Electronics Team
February 2016 – Present | Kharagpur, India

- Made the Simulink model of the Quadrotor along with PID control on MATLAB
- Designing control systems for a multicopter to take part in IARC 2017.

MOTION IMITATING AND PATH REPLICATING ROBOT | Project Head

- Led a team of 30 students to accomplish an IEEE certified project of making an autonomous robot which could imitate the motion of another line following robot and replicate its path using magnetometer, bluetooth modules and ATmega.

STEP COUNTER HEADING FOLLOWING ROBOT | Project Member

- Accomplished IEEE certified project of making a semi-autonomous robot which could count the number of steps taken by a human and move the same distance in the same direction using accelerometer, magnetometer and ATmega.

HEX-DECODING AND PATH PLANNING ROBOT |Team Leader

- Built an autonomous robot which could reach the end point by decoding hex-encoded data from IR LEDs using IR reciever, Magnetometer and Arduino, Kshitij '16, IIT Kharagpur.

EXPERIENCE

TECHNOLOGY ROBOTIX SOCIETY | Sub-head
February 2016 - Present | Kharagpur, India

- Sub-heading a 3 tier team of 30 people responsible for organising Robotix '17. India's biggest college robotics fest with a footfall of 2000+ participants in 2016.
- Organizing workshops across India to spread the culture of robotics.

KRAIG | Instructor
Kharagpur Robotics and Artifical Intellgence Group
February 2016 - Present | Kharagpur, India

- Conducting weekly lectures on Manual and Autonomous Robotics for over 200 first year students round the year.
- Fabricating 10 IEEE certified projects for over 200 students annually.

ACHIEVEMENTS

Sept, 2016 4^{th} in Event Sensorous, National Science and Space Challenge
Jun, 2015 All India Rank 5263 in JEE Advanced 2015.
Jun, 2015 All India Rank 3030 in JEE Mains 2015.