Harshit Sikchi

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EDUCATION

IIT KHARAGPUR
Btech in Computer Science
Expected July 2019 | Kharagpur,India
Cum. GPA: 8.96

D.A.V PUBLIC SCHOOL
Senior Secondary,Grade 12
Kota,Rajasthan,India
96 Percentage,CBSE Board

GOLDEN KIDS HIGH SCHOOL
Higher Secondary,Grade 10
Amravati,Maharashtra, India
97.27 percent SSC Board

LINKS

Github:// **hari-sikchi**
LinkedIn:// **Harshit Sikchi**
Codechef:// **king-coder**

CS COURSEWORK

Algorithms-1
Discrete structures
Signals and Networks
Introduction to electronics

ADDITIONAL
CS-50
Introduction to image processing
CS-231N-Deep learning in Image processing
Machine learning(Coursera)
Algorithms-I (Stanford)
Algorithms-II(Stanford)

SKILLS

PROFICIENT
C • C++ • Python • OpenCV
ROS • Algortihms • GIT
• Tensorflow •

INTERMEDIATE
HTML • CSS • Javascript • Web developement • C

FAMILIAR
App Developement

AWARDS AND ACHIEVEMENTS

2015	All India Rank 227	JEE Advanced among 150,000 candidates
2015	All India Rank 29	KVPY,IISc scholarship awardee
2015	Aditya Birla Scholarship	Among Top 16 students from India
2014	Top 1 Percent	Indian Astronomy Olympiad
2013	Disrict Rank 1	Maharashtra board 97.27percent(SSC)

PROJECT AND INTERNSHIPS

AUTONOMOUS GROUND VEHICLE | Mar'15 - Present
Indian Institute of Technology,Kharagpur

- Succesfully implemented and tested two path planning algorithms for Bot Eklavya 5.0 (Ackermann drive vehicle).
- Designed an algorithm for lane-navigation using RANSAC and tested thouroughly to eliminate all corner cases.
- Implemented the CHEVP algorithm for lane detection and combined it with B-snake spline detection curve.
- Worked on sbpl planner.
- Worked with 3D Lidar,Sterocam, 2D Lidar.

HARDWARE MODELLING PROJECT | Autonomous vehicle for handicapped
Nov 2015 – Dec 2015 | LBS Hall,IIT Kharagpur

- Developed a lane-detection cum navigation software for autonomous behaviour of the bot.(For Indoor Environment only).Obstacle avoidance is done by lidar only.
- The bot served as an attachment to a wheelchair that arrives at the wheelchair autonomously and needs to be attached.

DRIVER SIMULATOR PROJECT August-September | IIT Kharagpur

- Worked on how pre-processing the data of cameras mounted in car using BCD(binary colour decomposition) helps in improving accuracy of the output.
- Presently working on implementation of end to end learning to make a driver simulator.

AGNEXT RESEARCH Ongoing | IIT Kharagpur

- To make a image processing + deep learning module to identify crop infection and diseases and warn beforehand.**ongoing

MISCELLANEOUS

- Built a app in codefundo microsoft
- State Level Badminton Player
- A competetive programming entusiast

INTERESTS

ALGORITHMS
Machine Learning
Computer Vision
Driverless Cars