Animesh Sahu

PERSONAL DETAILS

Birth	November 3, 1997
Address	1658, Saraswati colony,Jabalpur
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EDUCATION

B.Tech + MS in Electronics and Communication　　　　　2013 - 2015
International Institute of Information Technology,Hyderabad
　　CGPA 7.60(till date)

Senior Secondary　　　　　2013 - 2015
Maharishi vidya mandir,Jabalpur
　　90.2 percent

Secondary　　　　　2015
Maharishi vidya mandir,Jabalpur
　　CGPA 10

WORK EXPERIENCE

Undergrad Research Research:　　　　　2018-present
Robotics Research Centre
　　Research student under Prof. Madhava Krishna, working on Indoor Autonomous Drone and height estimation of buildings from monocular camera and gps through deep learning models thus forming an elevation map of the scene

Teaching Assistant:　　　　　2019-present
Electronics Workshop 2,Systems Thinking

Summer Intern(2019):　　　　　May-July
VLEAD Intership(SRIP) Worked as a backend developer creating a web application integrated with rocketchat(opensource, similar to slack) where students can choose their open source project according to their interest and view their performance evaluated by mentors(admin)

PROJECTS

Computer Vision　　　　　2019
Worked on Deep Variational Metric learning and tried to improve upon the limitations of the conventional metric learning **Python3, Tensorflow**

Robotics:Control and Systems　　　　　2019

*Worked on Hierarchical Animation Control of Avatars in 3-D Virtual Environments by simulating DARwin-OP in ROS environment.***Python,ROS(Robot Operating System).**

Socket Programming 2019
*A file sharing protocol similar to Dropbox with support for download and upload for files and indexed searching.***Python3**

Tunnel rush 2019
*A WebGL game in which user can go through ever-changing tunnel packed with all kinds of obstacles. .***Javascript,HTML**

E-commerce Website 2019
*An E-commerce website built using Django Frame work.***HTML,CSS, python3, Django**

Embedded Hardware design 2018
Worked on implementation of the design of a Multi Cycle Central Processing Unit (CPU) in Very High Speed Integrated Circuits (VHSIC) Hardware Description Language or commonly known as VHDL. **VHDL**

A Race Car game 2018
*A race car game built using pygame.***python3 ,Pygame**

Tic Tac Toe Bot 2017
*An AI based Tic Tac Toe bot which uses min-max algorithm to ensure the fastest victory possible.***Artificial Intelligence, C++.**

Mobile Robot Path Planning 2017
*Given start and goal points of the robot, the path of the robot will be found by the polynomial equation of the curve in a 2 dimensional environment.***Python, C++**

Obstacle Avoiding Bot 2016
*-A bot prototype which avoids obstacles in it's path and changes it according to the requirements.***Arduino, C(embedded), Circuit Designs.**

SKILLS

Languages	C,C++,python,GNU/Linux(Bash),Javascript,Django,Flask HTML5,CSS3
Software	Matlab, LaTeX, VLSI Design, Micro-Controllers

RELEVANT COURSEWORK

Computer Science and Mathematics 2016-Present

Data Structures and Algorithms, Computer System Architecture, Algorithms and operating systems, IT Workshop(1 2), Time Complexity Analysis, Graph Theory, Linear Algebra, Probability and Random Processes,Computer Networks ,SMAI ,Computer Vision,Mobile Robotics

Electronics 2016-present

Signals and Systems, Digital Signal Processing, Embedded Hardware Designs, Digital Logic and Processors, Electronic Workshop(1 2), Linear Electronic Circuits,Electromagnetic Theory and applications,Electronics workshop 1 and 2,Mobile robotics,Information Theory and Coding

WORK SAMPLES

https://github.com/animeshsahu80