Shreyas Sachan

Information Technology and Mathematical Engineering

"To work in a firm with a professional work driven environment where I can enhance and apply my knowledge."

Education

2016– Presently	**Bachelor of Technology (BTech)**, *Cluster Innovation Centre, University of Delhi*, New Delhi, *First Semester Percentage – 75.76*. Information Technology and Mathematical Innovation
2014–2016	**XIIth Board**, *Kendriya Vidyalaya Old Cantt*, Allahabad, U.P., *Agg–92.8* . Maths,Physics and Chemistry
2013–2014	**Xth Board**, *CBSE*, Kendriya Vidyalaya Old Cantt, Allahabad, U.P.. *Agg – 10.00 CGPA*

PROJECT

Dec 2016 - April 2017	**Visual Perception for Visually Impaired**, *e-Yantra Idea Competition 2017*. Used RGBD Kinect camera and RaspberryPi to process 3D images in ROS(Robot Operating System) using PCL(Point Cloud Library). This was used to cluster the point clouds into different objects whose features are then calculated and this information is then relayed to an indigenously developed Android application which then used Google text-to-speech APIs to speak out a message mentioning the location and features of all objects found in that frame.
Mar 2017 - April 2017	**RoboAttack**. A browser based game which involves a problem based on graph theory. It works on self-made Algorithm which solves the problem of destroying path between k nodes in minimum weights.
Mar 2017 - Presently	**Hand Written Digit Recognizer**. Project for handwritten digit recognition using Machine Learning Algorithms and to classify on the basis of handwriting of the person that whether he is person is mentally challenged or not.
Oct 2016 - Presently	**Line Follower Robot**. We were able to build a Differential Drive Mobile Robot to follow a black line and a wall using some QTR and IR sensors. The black line may form a complex network of lines having curved or sharp turns.
Mar 2017 - April 2017	**4-bit Calculator**. A self made calculator capable of performing addition and subtraction with one digit decimal input

Position of Responsibility

April 2017 - Till Date   **Human Resource Manager,** Autonomi *Robotics Society of Cluster Innovation Centre,* University of Delhi

April 2017 - Till Date   **External Affairs Manager,** Autonomi *Robotics Society of Cluster Innovation Centre,* University of Delhi

Jan 2017 - April 2017   **Social Media Manager,** Autonomi *Robotics Society of Cluster Innovation Centre,* University of Delhi

Achievements & Honors

April 2017   **Certificate of Achievement,** *'Best Algorithm Design' for the project "Visual Perception for Visually Impaired",* e-YIC (eYantra Ideas Competition), IIT Bombay

Feb 2017   **1ˢᵗ place award,** *in 'Fastest Line Follower Robot' Competition,* Society of Robotics, DTU (Delhi Technological University)

Nov 2015   **Certificate of Achievement,** *JENESYS 2.0 Project - a Youth Exchange Programme,* Japan International Coorporation Center (JICE), Japan.

Sep 2014   **President Award,** *Bharat Scout & Guides,* Level of recognition: National.

Feb 2014   **Among top 5 Finalists** in Regional level Innovation in Science Pursuit for Inspired Research (INSPIRE) *in recognition for 'Jerk and Noise Free Rail Track'* ,Department of Science and Technology (DST).

Oct 2013   **1ˢᵗ place award in 10m Air Rifle Shooting** *KVS National Sports* KVS Varanasi Region. Level of recognition: Regional.

Aug 2013   **Certificate of Appreciation,** *KVS Regional Youth Parliament* KVS Varanasi Region. Level of recognition: Regional.

Nov 2012   **Certificate of Appreciation,** *National Mathematical Year Celebration, Maths Exhibition* KVS (Kendriya Vidyalaya Sangathan). Level of recognition: National.

Skills & Interests

Languages   Python, Java, Arduino, Matlab, HTML, CSS, Javascript, C++, LATEX

Interests

- Machine Learning
- Robotics
- Algorithms
- Image Processing
- Embedded Systems
- Mathematics

Personal Skills

- Very good team-work skills.
- Able to handle multiple situations at the same time.
- Easily Adaptable.
- Can manage time effectively

Languages

Hindi	**Fluent**	*Conversationally fluent*
English	**Fluent**	*Conversationally fluent*
Japanese	**Basic**	*Basic words and phrases only*

Personal Details

DOB	01st of April, 1999
Address	MIG-57, Govindpur, Allahabad, Uttar Pradesh
Languages	Hindi,English
Mobile No.	+91 8750608905

References

Name	Dr. Shobha Bagai
Designation	Professor
Organisation	Cluster Innovation Centre,University of Delhi
Mail	shobhabagai@gmail.com