

Arkaprova Deb

Intel Software Innovator

Love learning new technologies and tinkering with gadgets, solving Real World Problems using Data and Statistics. Looking for opportunities to contribute towards the upcoming technology and broaden my scope of learning.



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EDUCATION

Electronics & Communication Engineering Siliguri Institute of Technology

08/2016 – Present

8.0 SGPA

Higher Secondary Jalpaiguri Zilla School

2014 – 2016

76%

PERSONAL PROJECTS

Detection of health of tea-plantation using autonomous drones (02/2019 – Present)

- West Bengal is an area of widespread tea plantation. Our job is to develop a system which will use areal surveillance and IR imaging to detect anomalies in the plants.

Self Driving Bot (03/2018 – Present)

- A scaled down version of the self-driving system using an RC car, Raspberry Pi, Arduino, and open source software. The system uses a Raspberry Pi with a camera and an ultrasonic sensor as inputs, a processing computer that handles steering, object recognition (stop sign and traffic light) and distance measurement, and an Arduino board for RC car control.

Teaching Quality Monitoring and Analysing using Intel distribution of OpenVINO Toolkit

- A system to ensure a healthy learning process for the students of rural areas.

Smart Power Controller using Google Assistant (05/2018 – 06/2018)

- Designed an analog circuit and paired it with a ESP8266 Board to control the speed of fan linearly or dim a light using web app or Google assistant voice commands.

Home Automation using Google Assistant (11/2017)

- With this device home appliances can be controlled by using voice, Simply ask google assistant to turn on or off lights fans or tv etc, it will do the job. No separate hardware is necessary for google assistant, the one comes with every android phone will work flawlessly.

Smart Home Security System (Prototype) (07/2017)

- Security system based on RFID, It only allows person with valid ID card to enter. and it starts making noise if it detects unauthorized card.

Line follower Bot (12/2016)

- A line follower bot which follows a black line using an array of IR sensors.

Obstacle Avoidance Bot (09/2016)

- Bot that avoids obstacles in front of it using Ultrasonic Sound Sensor and turns in another way.

SKILLS

Python C Arduino MQTT C++ HTML

Automation Matlab Circuit Analyzing C#

Java Azure Machine Learning SQL

ACHIEVEMENTS

Intel Software Innovator (03/2019 – Present) 🔗

Winner of Circuit Design Challenge, Alacrity7

Ranked 1st in Circuit Design Challenge at Alacrity 7 organised by SIEM, Siliguri

LANGUAGES

English ● ● ● ● ●

Hindi ● ● ● ○ ○

Bengali ● ● ● ● ●

INTERESTS

IoT Machine Learning Deep Learning

Computer Vision Robotics

Micro Controller & Micro Processor Boards

Industrial Automation Drones

Digital & Analog Circuits Matlab Photography