ARGHA SEN

@ arghasen10@gmail.com   📞 +91 7001927155   📍 Birbhum, West Bengal, India   in https://www.linkedin.com/in/arghasen10

○ https://arghasen10.github.io

EXPERIENCE / INTERNSHIPS

Summer Research Intern

Electro Optical Tracking System (DRDO)

📅 May 2019 – July 2019   📍 ITR Chandipur, Odisha, India

- Project Title
  3D Tracking and Geo-Localization of a target using Unmanned Aerial Vehicles

Winter Research Intern

MCNRG, NIT Durgapur

📅 Dec 2018 – Jan 2019   📍 NIT DURGAPUR, India

- Project Title
  Aerial Environment Sensing and Traffic Surveillance using sensor enabled Drone/UAV
- Project Title
  Detecting Acceptable Air Contamination in Classrooms using Low Cost Sensors

Summer IoT Intern

CRIOTAM, Bangalore

📅 May 2018 – July 2018   📍 Bangalore, India

- Designed and developed three IoT prototypes for Sports Authority of India. (Starting Block, Force Plate, Timing Gates) • Interfaced multiple sensors to Arduino Uno(PCB designed with ATMEGA328P). • Designed an Android App using Android Studio to provide live plotting of sensor data after backend processing. • Designed a local server(Java Apache server with plotting sensor data in a GUI with backend data analysis) and main server for the database(Firebase).
- Developed a Facial Recognition system as a LockOut-Tagout (LOTO) system for Industrial IoT. • Designed Haar Cascade classifier based face detection and recognition. • Created a thorough dataset of 3 employees using Python.

PUBLICATIONS

- Workshop Paper titled as " Exploring Collision Avoidance during Communication Over Sound for Healthy Environment", published in International Workshop on Societal Computing for the Internet of Things You [SoCIeTY, ICDCN 2020]
- Research Paper titled as " Intelligent Traffic Routing Based on Real-Time Congestion Analysis", published in M V Chauhan Student Paper Contest, IEEE INDICON 2019

COURSES / CERTIFICATIONS

- IoT Weather Monitoring System with Raspberry Pi, Skyfi Labs (Dec 2017)
- 7 ROBOTS Combo Course from Skyfi Labs

AREAS OF INTEREST

Research   Programming   Computer Networks   IoT   Embedded System

EDUCATION

National Institute of Technology, Durgapur

Bachelor of Technology, Electronics and Communication Engineering

📅 2020   📍 Durgapur, West Bengal

- CGPA: 8.97

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Jawahar Navodaya Vidyalaya (CBSE)

📅 2016   📍 Birbhum, West Bengal

- Class XII Aggregate Percentage: 95.4%
- Class X Cum.GPA: 9.8/10

ACHIEVEMENTS

- Best Project Award at ITR Chandipur, DRDO.
- Participated in Festival of Innovation and Entrepreneurship (FINE) 2019 at NIF Gandhinagar, Gujarat.
- Presented a poster in the Workshop on Robotics and Assistive Technology (RAT 2019) organized by NIT Durgapur.
- 1st Position in Techmela, The annual science exhibition organized in AAROHAN 2019
- 1st Position in Onspot IoT Hackathon organised in AAROHAN 2019

CO-CURRICULAR WORK

- Participated in Stage play,Carpe Diem,2017, IIM Calcutta and won 3rd Position
- Play Head at Enteract, Dramatics Club of NIT Durgapur
- Took part in Street Play Competetion, Spring Fest, IIT Kharagpur and won 1st Position