Tanmay Srivastava

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Research Interests

Image Processing, Audio and Biomedical Signal Processing, Mobile Computing, Embedded Systems, Robotics, Digital Systems

Education

Bharati Vidyapeeths College of Engineering
New Delhi, India   Aug 2016–May 2020
B.Tech. in Instrumentation and Control Engineering, *CGPA 8.5*
St. Lawrence Convent New Delhi, India
Higher Secondary Education, *CBSE 90% in C.B.S.E,*   Jul. 2015

Internships and Industry Experience

Researcher and Developer   Jul. 2017—Present
Endolite India
Research Intern   May. 2018—Oct. 2018
Celestini Project India, Marconi Society, Google, IIT Delhi
Led by : Dr. Aakanksha Chowdhery (Google AI) and Dr. Brejesh Lall (IIT Delhi)
Trainee   Dec. 2016—Jan 2017
Minda Industries, Noida, Delhi

Technical Projects

- "Air Cognizer" Air quality analytics
  and alert android application.   May. 2018—Oct. 2018
- **"Prosthetic Arm"** Circuit and software developemnt for Prosthetic Arm using EMG sensors   Aug. 2017—Present
- **"Moonshine"** An alcohol detector developed using ATmega 328p chip and MQ2 sensors with auto calibration against environmental conditions.   2018
- **"Vision"** Vision is an IOT sonar which is capable of detecting multiple obstacles, communicate with them using bluetooth, calculate distance and angle of obstruction from a reference   2018
- **"Haze remonal"** Haze removal by application of Dark Channel Prior alogorithm in Python   2017
- **"Obstacle Avoider"** Obstacle avoider using edge detection in Python   2017
- **"Attedee"** A real-time RF-ID based attendance which creates records of the data and time of the snap and writes them into a notepad file with unique ID for every user.   2017
- **"CNC"** computer numerical control build using Arduino and stepper motor   2016
- **"Temperature based color mixer"** Thermocouple used to control intensity and wavelength of LED.   2016

Awards

- Paul Baran Young Scholars **Celestini Prize India 2018**
- Winner of project exhibition **Evotech 2.0 2018**
- Gold Medalist[st] in State level CBSE Science Exhibition   2012
- Gold Medalist[st] in State level CBSE School Science Exhibition   2011

Leadership Experience

- Conducting more than 15 inter-college workshops to teach **programming concepts** on Arduino/Raspberry, **Image Processing**   Aug,2018—Present

- Event organizer at college fest   2018
- **Chair** of RAU (SIG) BVP IEEE Student Branch   Aug 2018 – Present
- **Student Representative** of Robotics Society, BVCOE   2016 – 2017
- **Event Co-ordinatior** at Fervour - Technical Fest of college

TECHNICAL SKILLS
- **Python**, Java, Matlab, Embedded C
- **Signal Processing**, Computer Vision, Machine Learning, Digital Systems
- **Raspberry , Arduino**, 8051, ATmega
- **Android Development**, PCB Designing