**Name: Adarsh Jagan S (Project Manager)**4th year Electronics and Communication Engg  
Email: adarshjagan3895@gmail.com **Areas of interest:**1. Computer vision  
2. Machine Learning  
3. Control systems  
4. Product Design **Projects:**1. Cloudrone (University of Cambridge)  
2. Quadcop V3 using BeagleBone Black  
3. Quadcop V2 using Arduino  
4. MRDP  
5. Project Pepper (Ongoing)  
6. Lego EV3- ROS (IIT Madras)

**Publications:**

1. [Cloudrone](https://arxiv.org/pdf/1604.08243.pdf):Micro Clouds in the sky, DroNet 2016 ,14th ACM MobiSys International Conference, Singapore.

**Internships:**1. Cloudrone: Micro data centers in the sky, The William Gates building, University of Cambridge (June '16 to Aug '16).   
  
2. Lego Ev3- ROS Testbed, Control systems lab, Electrical engineering Dept, IIT Madras (May '15 to July '15)  
3. Image Processing in MATLAB, Uniq Technologies, Chennai (May '14 to June '14) **Competitions:**1. Mahindra RisePrize Driverless car challenge  
2. Sangam '15  
3. Electrofocus line tracker competition  
4. Following '14

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**Name: Sabhari Natarajan (President)**4th year Production Engineering  
Email: nsabhari@gmail.com **Areas of interest:**1. Design and Development of Manipulators  
2. Design and Development of UAV’s  
3. 2D & 3D Image Processing  
4. Prototyping and Manufacturing **Projects:**1. Bionic Reconfigurable Robotic chair/bed (Ryerson University)

2. Serial manipulator designed to play Air-hockey (Ongoing)  
3. Quadcop V3 using BeagleBone Black  
4. Quadcop V2.1 using Arduino (IIT Madras)

5. Image processing for Ball-Labyrinth solving manipulator

6. MRDP

**Internships:**1. Bionic Reconfigurable Robotic chair/bed, Intelligent Systems & Robotics/ Micro Manufacturing Lab ,Aerospace Department, Ryerson University (May '16 to Aug '16).   
  
2. Quadcop V2.1, Robotics lab, Electrical engineering Dept, IIT Madras (May '15 to July '15)  
 **Competitions:**1. Mahindra RisePrize Driverless car challenge  
2. Sangam '15  
3. Following '14  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mohamed Naveed G**

3rd year, Instrumentation and Control Engineering

Email: [mohdnaveed96@gmail.com](mailto:mohdnaveed96@gmail.com)

LinkedIn : <https://www.linkedin.com/in/mohamed-naveed-g-674b74a9/>

Facebook: [https://m.facebook.com/G.M.Naveed](https://m.facebook.com/G.M.Naveed?ref=bookmarks)

**Areas of Interest:**

· Embedded Systems

· Machine Learning

· Control Systems

· Electronics

· Design and Fabrication

**Projects:**

* **DETECTION OF SPAM IN TWITTER USING MACHINE LEARNING** (May 16’ –July 16’)
* **SLAT-HEX** (Sound source Localizing All Terrain Hexapod) (Nov 15’ – Feb 16’)
* **SOCCER ROBOTS** (Ongoing)

**Internship :**

Supercomputer Education Research Centre , IISc Bengaluru under Prof. N. Balakrishnan . ( through Indian Academy of Sciences Fellowship programme)

**Competitions:**

1. Sangam, Pragyan 16’ (Third Place)
2. Eyantra 16’
3. Following 15’(Winner)

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**Harish Kumar K R**

3rd year, Mechanical Engineering

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Linkedin: https://www.linkedin.com/in/harishkumarkr/

**Areas of Interest:**

· Inverse Kinematics

· Control systems

· Design and simulation

· Statics and Dynamics

**Projects:**

1. Serial manipulator air hockey platform
2. KINGS

**Competitions:**

1. FTC ‘16
2. FTC ‘17

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**Name: H. Ruthrash**3rd year Electrical and Electronics Engg  
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Linkedin : <https://www.linkedin.com/in/h-ruthrash-b5b790112/>

Facebook : <https://www.facebook.com/ruthrash.h>

Related videos: <https://www.youtube.com/channel/UCJFHG79IYb9RkA3lmDQQ6eg>

Resume: <https://drive.google.com/open?id=0B3qZIMrv7U-BUHJWYnRkT3BKSDg> **Areas of interest:**1. Mobile robots  
2. Multiple agent systems  
3. Rehabilitative robotics  
4. Control **Projects:**1. Co-ordination of mobile robots(ongoing)(guided by Dr.V.Sankaranarayanan)  
2. Project pepper(ongoing)  
3. Lego EV3- ROS (IIT Madras)  
4. EXOS-Exoskeleton for hand.  
 **Internships:**  
1. Lego Ev3- ROS Testbed, Control systems lab, Electrical engineering Dept, IIT Madras (May '16 to July '16 **Competitions:**1. E-yantra ‘15  
2. Sangam '16

3. Following '15

**Name: Nithin Shrivatsav.S**3rd year Electrical and Electronics Engg  
Email: [nithinshrivatsav@gmail.com](mailto:nithinshrivatsav@gmail.com)

Related videos:https://www.youtube.com/watch?v=9uU7JPf1mRo

Related videos:https://www.youtube.com/watch?v=YhJMgAT8OMk

Related videos:https://www.youtube.com/watch?v=\_X3Bv01tu7UResume:https://goo.gl/sLxsss **Areas of interest:**1. Human-Robot Interaction  
2. Multiple agent systems  
3. Rehabilitation robotics  
4. Control

5. Machine Learning **Projects:**1. Co-ordination of mobile robots(ongoing)(guided by Dr.V.Sankaranarayanan)  
2. Project pepper(ongoing)  
3. Deep Learning for Object Recognition(IIST, Trivandrum under Dr. Deepak Mishra and Dr. RKSS Gorthi)  
4. EXOS-Exoskeleton for hand

5. ELBOT  
 **Internships:**  
Deep Learning for Object recognition (Deep Neural Networks Comprise of CNN), under Dr. Deepak Mishra and Dr. RKSS Gorthi in IIST, Trivandrum.  **Competitions:**1. E-yantra ‘15  
2. Sangam '16

3. FTC 2016

**Name: Venkata Subramanian S**3rd year Electronics and Communication Engineering  
Email: [venkatasubramanian1996@gmail.com](mailto:venkatasubramanian1996@gmail.com)

Resume: <https://goo.gl/qT7eqt>

**Areas of interest:**1. Pattern Recognition  
2. Statistical Signal Processing

3. Deep Learning  
4. Rehabilitation robotics  
 **Projects:**1. Sleep Analysis using single channel EEG (ongoing)(guided by Dr. Mohanasankar Sivaprakasam - IITM and Dr. ES Gopi)  
2. Project Pepper(ongoing)  
3. ELBOT  
4. EXOS-Exoskeleton for hand.  
 **Internships:**  
Sleep Analysing Technology, Healthcare Innovation Technology Centre, IIT Madras (May '16 to July '16) **Competitions:**  
1. Sangam '16

2. FTC ‘16

3. Anveshan 2017

**Name: Baladhurgesh B P**

3rd year Instrumentation & Control Engineering

**Email :** [baladhurgesh97@gmail.com](mailto:baladhurgesh97@gmail.com)

**Areas of Interest :**

Ground & Aerial Robotics

Control & Path planning

Multi agent systems

**Projects:**

1)RoboSoccer (ongoing)

2)Slat-Hex

3)Quad copter

4) Air Hockey

**Internships**:

1. Co-ordination of multiple Ardrones (ongoing) under Dr. Shankarnarayanan,EEE Dept , NIT Trichy
2. 2D Waypoint following of Quad copter & established Communication between Quad and Matlab - under Dr.Arpita Sinha , ARMS Lab, Systems & Control Engineering Dept, IIT-Bombay (May 10 -July 3)

**Competition:**

1. Eyantra ‘16
2. Third Place, Sangam’16
3. First Place, Following’15
4. FTC

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**Name: Prakash B (Treasurer)**4th year Instrumentation and Control Engg  
Email: [prakashbaskaran1895@gmail.com](mailto:prakashbaskaran1895@gmail.com)

**Fb link:** [**https://www.facebook.com/Prakash1895**](https://www.facebook.com/Prakash1895)

**Linkdin:   
  
Areas of interest:**1. Mobile robotics  
2. Design and Control of UAVs  
3. Control systems  
4. Computer vision **Projects:**1.Project Pepper (Ongoing)

2.Cloudrone (University of Cambridge)  
2.MRDP  
3. Quadcop using BeagleBone Black  
5.Quadcop V2.1 using Arduino (IIT Madras)

**Publications:**

1. [Cloudrone](https://arxiv.org/pdf/1604.08243.pdf): Micro Clouds in the sky, DroNet 2016 ,14th ACM MobiSys International Conference, Singapore.

**Internships:**1. Cloudrone: Micro data centers in the sky, The Computer laboratory, University of Cambridge (June '16 to Aug '16).   
  
2. Quadcop V2.1, Robotics lab, Electrical engineering Dept, IIT Madras (May '15 to July '15)  
3. Image Processing in MATLAB, Uniq Technologies, Chennai (May '14 to June '14) **Competitions:**1. Mahindra RisePrize Driverless car challenge  
2. Sangam '15  
3. Electrofocus line tracker competition  
4. Following '14

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**Name: Hari Prasanth P**

2nd year Mechanical Engg

Email: [hari.191197@gmail.com](mailto:hari.191197@gmail.com)

Fb:<https://www.facebook.com/hari.prasanth.5811>

**Areas of Interest:**

1.Machine learning

2.Inverse Kinematics

3.Swarm Robotics

4.Control

**Projects:**

ARES(Assisstive and Rehabilitation Exoskeleton)

MRDP

**Competitions:**

1. Sangam ‘17  
 2. Following '16

3. InHott ‘15

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**Name: Madhan S**

2nd year Electronics and Communication Engg

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Linkedin:<https://www.linkedin.com/in/madhan-s-85855713a/>

**Areas of Interest:**

1.Electronics

2.Control systems

3.Machine Learning

4.Signal Processing

**Projects:**

1.ARES(Assistive Rehabilitation Exoskeleton)

2.Quadcopter

3.Air-hockey

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**Name: VigneshWar M**

2nd year Electronics and Communication Engineering

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**Areas of Interest:**

1.Augmentative Robotics

2.Machine Learning

3.Swarm Robotics

4.Fabrication and Design

5.Circuit Design,Electronics and Mechanics

**Projects:**

1. ARES- Assistive Rehabilitation ExoSkeleton
2. Quadcopter

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**Name: Chinari Subhechha Subudhi**

2nd year Instrumentation and Control Engineering

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Facebook: <https://www.facebook.com/subhechha.subudhi>

Resume: <https://drive.google.com/file/d/0B4o_dyuEos37eWVseE1EX2FSM3c/view?usp=sharing>

**Areas of interest:**

1. Control systems
2. Machine learning
3. Aerodynamics

Projects:  
1 ASCON

2. MRDP

3. Classification of user into different interest groups based on tweets using machine learning.

**Competitions:**

* Sangam’17
* Yocanai, Inhott, Pragyan 16
* Following’16
* Maze solving robot, Sensors’ 16
* TechaTronix ‘16

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**Name: Anirudh Swaminathan (Web Developer)**

2nd Year Chemical Engineering

Email: [aniswami97@gmail.com](mailto:aniswami97@gmail.com)

Github:<https://github.com/Anirudh-Swaminathan>

Facebook: <https://www.facebook.com/profile.php?id=100009863504158>

**Areas Of Interest:**

1. Machine Learning
2. Artificial Intelligence
3. Web and Mobile Application Development
4. Mobile Robotics
5. Electronics and circuit design

**Projects**

1. ARES
2. MRDP

**Competitions:**

* Electrolution, InHott, Pragyan 16
* Maze solving robot, ICE Dept. 16
* TechaTronix ‘16

Name**: Venkatesh Prasad V**

2nd year Instrumentation and Control Engineering

Email:[venkateshprasad23061997@gmail.com](mailto:venkateshprasad23061997@gmail.com)

**Areas of Interest**:

* Control systems
* Machine Learning
* Localization and Mapping
* Image Processing

**Projects:**

1.ASCON ( American Sign Language to Speech CONverter )

2.Proje

3.Air-hockey

**Competitions:**

* Pragyan Inhott’15
* Maze Solving Robot, ICE Dept. 16
* Following ‘16
* Techatronix ‘16

**Name: Nanda Kishore V**3rd year Electrical and Electronics Engineering  
Email: nandakishore12111996@gmail.com **Areas of interest:**1. Mobile Robotics  
2. Localization and Mapping  
3. Multi-agent Robotic Systems  
4. Artificial Intelligence

5. Machine Learning

6. Control Systems **Projects:**1. Soccer Robots (Ongoing)

2. Control and coordination of mobile robots  
3. SLAT-HEX  
4. MRDP

**Internships:**1. Strategy for evader in pursuit-evasion games using reinforcement learning at IIITDM, Jabalpur under Prof. Aparajita Ojha. (Summer ‘16)

**Competitions:**1. Third place, Sangam '16  
2. Following '15

3. First place, Electrolution ’15

**Name: S Muhammad Suhail**3rd year Mechanical Engg  
Email: [muhammadsuhail441@gmail.com](mailto:muhammadsuhail441@gmail.com) **Areas of interest:**1. Probabilistic Robotics  
2. Mobile Robotics

3. Multi Robot Systems  
4. Control and Motion Planning

5. Computer Vision

**Projects:**

1. Soccer Robots (Ongoing)  
2. RoboMuse (IIT Delhi, Ongoing)   
3. SLAT-HEX  
4. MRDP

**Internships:**

**1.** Development of software on the Robot Operating System, for the Autonomous Navigation of Mobile Robot, PAR Lab, IIT-Delhi, under the mentorship of Prof. S. K. Saha (Head Of Department, Department of Mechanical Engineering). (Summer & Winter ‘16)

**Competitions:**1. Third Place, Sangam, Pragyan '16

2. Eyantra ‘16

2. Second Place, Electrolution, Pragyan ’15

**Name: Arvind Nataraj S**3rd year Electronics and Communication Engineering  
Email: [arvindnata123](mailto:arvindnata123@gmail.com)@gmail.com

LinkedIn : <https://www.linkedin.com/in/arvind-nataraj-s-b16b1b11a>

Facebook : https://www.facebook.com/arvind.nataraj.1 **Areas of interest:**1. Machine Learning  
2. Embedded Systems  
3. Electronics

4. Swarm Robotics

5. Control Systems **Projects:**1. Project Pepper (Ongoing)

2. BreathEZY (IoT) (May - Jul ‘16)  
3. SLAT-HEX (Nov - Feb ‘16)

**Internships:**1. Summer Internship at Analog Devices Inc., Bangalore (May - Jul ‘16)

**Competitions:**1. Sangam '16  
2. Following '15

3. Electrolution ’15

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**Name** : **Subramanian K**

2nd year, Instrumentation and Control Engineering

Email-ID: [subramanian.krish611@gmail.com](mailto:subramanian.krish611@gmail.com)

Facebook: https://www.facebook.com/SubzKrish

**Areas of Interest :**

Control Systems

Computer Vision

Machine Learning

**Internships:**

**1.** 3D Exploration, Mappping, Point to Point Navigation , Autonomous Docking and Person Following implemeted in Robot Operating System(ROS), PAR Lab, IIT-Delhi, under the mentorship of Prof. S. K. Saha (Head Of Department, Department of Mechanical Engineering). (Summer ‘17)

**Projects:**

1.American Sign Language to Speech Converter - ASCON

2.Air hockey

**Competitions:**

1. Following ‘16(Runner Up)

2. TechaTronix ‘16

4. Sangam ‘17

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**Name: Anand Asokan**2nd Year - Instrumentation and Control Engineering  
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Github:- <https://github.com/anand97>

LinkedIn:- <https://www.linkedin.com/in/anand-asokan-750972126/>

**Areas of interest:** 1. Bionics & Rehabilitation Robotics

2. Signal Processing

3. Manipulators  
 4. Control Theory

5. Embedded Systems **Projects:** 1. ARMatron - A Gesture Recognition Glove (Nov’15-Feb‘16)

2. ARES- Assistive Rehabilitation ExoSkeleton (Dec’16-)

3. Project Pepper(Oct’16-)

**Internships:**-

1. RSIC ’14 - Research Science Initiative, Chennai

**Competitions:**

1. Sangam '16

2. Sangam ‘17  
 3. Following '16

4. InHott ‘15

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**Name: Nikhil Jonnavithula**

2nd Year - Instrumentation and Control Engineering

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**FB:** <https://www.facebook.com/jonnavithula.nikhil.7>

**Areas of interest:**

1. Mechanics
2. Bio robotics
3. Mobile robotics
4. Image processing

**Projects:**

1. ASCON-American Sign Language to Speech convertor glove

Wearable hand gloves that convert sign language to speech, in compliance with the

universally accepted, American Sign Language symbols.

2. Project Pepper

3. Photon guided retriever robot

4. Line following robot

**Competitions:**

1. Following ‘16
2. Sangam’ 17

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**AJAY A**

3rd year, Instrumentation and Control Engineering

Email: [ajaiasai@gmail.com](mailto:ajaiasai@gmail.com)

**Areas of Interest:**

· Machine Learning

· Control Systems

· Electronics

· Design and Fabrication

**Projects:**

**ELBOT** Aug'15-Mar'16

A Robot that can recognize digits and faces of people from a camera feed .

Important concepts Implemented :

● Image processing for feature detection and extraction.

● Principal Component Analysis Algorithm was implemented to reduce the dimensions of the

extracted images.

● Neural Network was trained using Backpropagation algorithm for digit and face recognition..

**EXOS**  Nov'15-Jan'16

A self-fabricated wearable robotic exoskeleton glove to assist patients with upper hand disabilities by

amplifying their actions.

Important concepts Implemented :

● Under actuated Cable Driven Mechanism was designed for remote actuation and hence

reduced the weight concentration of the exoskeleton in the upper hand

**Ball balancing using Stewart platform:** July’16- Present

The objective of the project is to construct and fabricate a Stewart platform and control the roll, pitch and yaw using the linear actuators. Using the constructed platform, A ball placed on the platform is balanced using feed-back from a camera placed above.

**INTERNSHIP**

Designed a mechanism and a circuit to automate calibration of ‘LOW PRESSURE WARNING

DEVICES’ (used in Industrial safety equipment) at **Honeywell Electrical Devices and Systems**

**India Ltd., Chennai.**

**Competitions:**

Following '15

Sangam, Pragyan 16’

FTC ‘16

**Name** : Sarada Krithivasan (Vice President- Projects)

4rth year

Electrical and Electronics Engineering

**E-mail** : [sarada.krithi@gmail.com](mailto:sarada.krithi@gmail.com)

**Bitbucket** : bitbucket.org/Sarada\_K/

**LinkedIn** : https://www.linkedin.com/in/sarada-krithivasan-07534a140/

**Areas of interest**:

1)VLSI Design

2)Computer Architecture:

a. Alternate Computing Techniques, including Neuromorphic, Non-Boolean and Approximate Computing

b. RISC-V Instruction Set Architecture

3) Machine Learning, Deep Learning :

Neural Networks, Unsupervised Learning Algorithms

4) Image Processing :  
 Depth estimation techniques, including stereoscopy

**Projects:**

1. Aerial Assisted Path Planning for Terrestrial Rovers
2. The Object Retriever Device

**Internships:**

Reconfigurable and Intelligent Systems Engineering Lab, IIT-Madras

Professor : Dr. Kamakoti Veezhinathan

1. May 2015 - June 2016 :

An Accuracy Tunable Non-Boolean Co-processor using Coupled Nano-oscillators :

Using coupled nano-oscillators, a Co-Processor Instruction Set Architecture was developed, targeting dominant computations present in error-resilient applications such as Digit Recognition and Image Segmentation. ISA validation was performed using HyperFET technology. Improvements in speed, performance and area were obtained over Boolean CMOS accelerators.

2) May 2016 - July 2016:

The Shakti Project:

Worked on 32-bit C-Class Microcontroller suite, one of the six types of processor variants being built using the RISC-V ISA from UC Berkeley. Developed parts of a software debugger, specialized for the IIT-Madras architecture. The functionalities included displaying and modifying register and memory values, uploading and execution of user-application etc. Verification was performed using the Nexys 4 DDR Artix7 FPGA board.

**Publications:**

Sripad Krishna,D.;Yadav,H.;Krithivasan,S.;Selvaraj,V.”Aerial assisted path planning for terrestrial rover without complete environment map” in Innovations in Information, Embedded and Communication Systems (ICIIECS), 2015 International Conference on(ICIIECS)

**Competitions:**

1) Mahindra Rise Prize Driverless Car Challenge

2) Sangam ’15

**Name** : M Sidhaarth (Vice President- Workshops)

4th year

Electronics and Communication Engineering

**E-mail** : [mur.sidhaarth@gmail.com](mailto:mur.sidhaarth@gmail.com)

**FB**: <https://www.facebook.com/sid.sidhaarth>

**LinkedIn**: https://www.linkedin.com/in/sidhaarth-murugan-b30293101/

**Areas of interest**:

RF IC Design

Analog CMOS IC Design

**Projects:**

## Rectifier based design for RF to DC Conversion

## Design of a Folded Cascode Operational Amplifier for Pipelined ADCs

## Electrooculogram Signal Acquisition and Eye Movement Tracking

## SYCLE – The Smart Cycle

**Internships:**

## **Wireless Multi-hop Audio Streaming using MICAz Wireless Sensor Nodes** - Department of Electrical Engineering, Indian Institute of Science, Bangalore, India

## **Real Time Gender Classification from facial features** - Robotics and Cognitive Systems, Tata Consultancy Services, India

**Publications:**

“**Design of a robust method to acquire EOG signals using bio-medical signal processing”**. In proceedings of IEEE sponsored 3rd International Conference on Innovations in Information, Embedded and Communication Systems (vol. 2, pp. 303-306). Coimbatore, India: IEEE.

**Competitions:**

## National Instruments NIYANTRA – The Annual Graphical System Design Contest – 2015 (Finalist)

1. FIRST Tech Challenge 2014 – 2015 (Runners-Up)

## Mahindra RISE PRIZE 2014 – 2015

1. Sangam - 2015 (Third Place)

Name:Aarthy Ramesh

Email: [raarthy22@gmail.com](mailto:raarthy22@gmail.com)

Fb: https://www.facebook.com/aarthy.ramesh.9

Linkdin: https://www.linkedin.com/in/aarthy-ramesh-a6070b13b

Projects:

1. QuadCopter V3
2. Mind Over Matter
3. Spoof Detection in ASV

Areas of interest

1. Bio Signal procesing
2. Machine learning
3. Control
4. Speech processing

Internship:

Project on spoof detection in automatic speaker Verification systems for the ASVSpoof challenge at IISc

Publications:

FACTOR ANALYSIS METHODS FOR JOINT SPEAKER VERIFICATION AND SPOOF DETECTION  
presented at ICASSP 2017

Competitions: sangam, pragyan ‘16, first

Following ‘15

FTC ‘16