Pranav Kumar

| Electronics, Robotics Research Enthusiast | kpranav083@gmail.com | +919614436659 | pranav083

EDUCATION

UIET, PANJAB UNIVERSITY

B.E IN ELECTRONICS AND COMMUNICATION

4rd Year | Chandigarh, India CGPA: 7.01 / 10.0

DELHI PUBLIC SCHOOL

HIGHER SECONDARY, CBSE May 2015 | Ranchi, India Percentage: 90.2 / 100.0

ABR FOUNDATION

SECONDARY, CBSE
May 2013 | Sasaram Ir

May 2013 | Sasaram, India CGPA: 9.8 / 10.0

SKILLS

Software / Tools:

C • Embedded C • OpenCV • ROS Python • Matlab • RTOS • Git Embedded Linux • Fritzing Hardware:

BeagleBone • Raspberry Pi • ARM ICs • Circuit Design • I2C • Sensor Interface • Circuit Prototyping Familiar:

Eagle • Gcode • Mcode • ATEX

LINKS

Github:// pranav083 LinkedIn://pranav083 Twitter://@pranav083

ORGANIZATION AND

EVENTS

EGU, UIET | COMMUNITY HEAD

June 2017 - present|Group Link

• Initiative to develop a open embedded environment for all with around 550+ members.

WORKSHOPS, SEMINAR AND HACKATHONS

Speaker & Organizer

June 2017 – present | Gallery Link

Organized events on different Topic related to electronics at North India Level.

* Underline TEXT are Link or URL

INTERNSHIP / FXPERIENCE

BEAGLEBOARD.ORG |Google Summer of Code (GSoC)-2019 Open Source Contributer

June 2019 - Aug 2019

- Using BeagleBone and 74hc299 shift Register, provided a reference design for bi-directional commincation for multiple peripherials.
- For more Infomation see Project Page and Beaglebone official blog Page.
- Youtube **Playlist** and Github **Code**.

E-YRC (IIT BOMBAY) | TEAM LEADER & OPEN SOURCE CONTRIBUTER

Oct 2018 - Feb 2019 | Chandigarh, India

- Using OpenCV for object Detection and ArUco Markers. Making a lighter and less complex multifunctional line Following algorithm using FSM.
- Developed a lighter and less complex multifunctional line Following algorithm using FSM that is easy to implement and build.
- Youtube Video and Github Code.

PRODUCT DEVELOPMENT FOR NGO | STUDENT LEAD

Contact: Dr. Manu Sharma - manu@pu.ac.in

September 2018 - Present | UIET, PU, Chandigarh, India

- Designed and build several product based design for NGO by managing resourses and Team of around 20 team members.
- Follow up this Github Link for More Info Codes and Document.

CIC, UNIVERSITY OF DELHI | TEAM MEMBER & INTERN

June 2018 - July 2018 | Delhi, India

- Worked on swarm formation control robots using ROS(robot operating system).
- Follow the link for more Information and Achieved work Code.

DESIGN AND INNOVATION CENTER | TEAM LEADER

Contact: Dr. Naveen Aggarwal - navagg@pu.ac.in

Initiative By MHRD(Gov.of India) on collaborative research and innovation Jan 2018 - Oct 2018 | PU,Chandigarh, India

- Proposed a 3-D printing technology with the multipurpose capabilities enabling us to multi tasking like 2D plotting, 3D printing etc.
- Enabled Multiple capabiltiy with only addon modules with same Base.

PERSONAL PROJECTS HARVESTER BOT | (JAN 2017 - MAR 2017)

 Prototype for efficient harvesting without wastage of straw in e-YIC(IIT Bombay), Proposal Document <u>Link</u>

2D PLOTTER(OPEN SOURCE PROJECT) | (JUNE 2017 - JULY 2017)

• Using Arduino Mega, RAMP 1.4 with Marlin Firmware, Youtube Video

ACHIEVEMENTS

- 2019 Robot Operating System Conference ROSCon, Macau Scholarship Holder
- 2019 Awardee for excellence in Technology by **Kirron Kher (MP, Chandigarh)**
- 2019 1st at Design and Idea Competition by IIC, Panjab University at Chandigarh
- 2019 **Mentor** of 1st winning team of Smart India Hackathon-2019(Hardware Edition)
- 2018 Winner of Pocket Beagle at Mouser electronics event at IIT Roorkee