Pranav Kumar

| Electronics, Robotics Research Enthusiast |
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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, 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 • LaTeX

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 / EXPERIENCE

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

- Using BeagleBone and 74hc299 shift Register, providing a reference design for bi-directional commincation using 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.
- Making 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

- Design 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

- To propose a 3-D printing technology with the multipurpose capabilities enabling us to multi tasking like 2D plotting, 3D printing etc.
- Enable 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 Link

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