Pranav Kumar

| Electronics, Robotics Research Enthusiast |
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EDUCATION

UIET, PANJAB UNIVERSITY
B.E in Electronics
and Communication
3rd Year | Chandigarh, India
CGPA: 6.96 / 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 • Pspice
Circuit Prototyping • Linux • Fritzing
Hardware:
Raspberry Pi • Atmel chip • Arduino • ICs
Circuit Design • I2C • sensor interface
Familiar:
Eagle • Gcode • Mcode • Labview
Tspice • LaTeX

LINKS

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

PERSONAL PROJECTS

HARVESTER BOT
(Jan 2017 – Mar 2017)
• A prototype machine for efficient
harvesting without wastage of straw
genrated in e-YIC
(IIT Bombay)
• Proposal Document Link

2D PLOTTER
(June 2017 – July 2017)
• With the vision of modularity among
prototyping hardwares, created 2D Plotter
using Arduino Mega, RAMP 1.4
with open Source Marlin Firmware.
• Youtube Video

INTERNSHIP / EXPERIENCE

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.
- 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
- This lab in college work as a bridge between college-industry partnership program .In this we have build many different project for NGO.
- Design and build several product based design for NGO which show case these in the school for encouraging secondary school.
- Managed 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 robotics formation control robots using ROS(robot operating system).
- Follow the link for more Information.
- 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 .

ACHIEVEMENTS

2018   Pocket Beagle at Mouser electronics event at IIT Roorkee
2019   Poster presentation at Chandigarh Science Congress(CHESCON)

ORGANIZATION AND EVENTS

EMBEDDED GROUP OF UIET | Community Head
June 2017 – present | Telegram Group Link
Initiative to develop a open embedded environment for all with around 340+ members.

WORKSHOPS AND SEMINAR | Student Speaker
June 2017 – present | Drive Link
Organized different WORKSHOP and SEMINAR on different Topic related to electronics.

ELECTRONICS HACKATHON | Organizer
June 2017 , August 2018 | Photo Gallery Link
Organized electronics hackathon on North India level.