Jeet Shah

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Education

National Institute of Technology Karnataka, Surathkal   *Surathkal, India*
B.Tech: Major in Electrical and Electronics Engineering, Minor in Computer Science   *July 2018 - Present*

Prakash Junior College   *Mumbai, Maharashtra, India*
Grade-12, Maharahtra State Board, Percentage: 84.46%   *2018*

Children's Academy School   *Mumbai, Maharashtra, India*
Grade-10, Maharahtra State Board, Percentage: 91.16%   *2016*

Skills

Languages	Python, JavaScript, C
Image Processing	Background Subtraction, Template Matching, Object Recognition, Stereo Camera Vision, Open-CV, ImageAI
PCB Design	Eagle, KiCAD, EasyEDA
Embedded systems	Embedded C, Arduino, NodeMCU, Sensors Micro-controller Interfacing

Projects

Smart Heater
• Developed a novel device to control the temperature of water. Work involved implementing Digital Electronics and PCB Design.
• This was implemented with a temperature sensor LM35 and water-proofing it with heat-shrinks and connecting to a discrete circuit which contains a series of digital and a few analog components to ensure the temperature to be in the specified range which can be set by changing certain resistors in the circuit.

Self-Targeting Turret
• Designed an automated turret targeting system using Kalman filters. Image recognition was done using YOLOv3 and pan-and-tilt mechanism.
• Link to the Document : `https://github.com/IEEE-NITK/Automated-Gun-Turrent`

Dance Dance Revolution
• Reconstructed the Classic arcade game. Involved Digital electronics, PCB Design, Arduino as a micro-controller.
• The ground board was made with wood and wiring was with multi-strand wires, SN74HC595 was used to send out the signal for which of the boxes are supposed to light up, SN74HC165 were used to collect which of the boxes are stepped on, along with ULN2803 to step up the current and voltage for LED Strips. All of these were coordinated with Arduino as micro-controller.
• Link to the Document: `https://drive.google.com/file/d/1NO5nWQ9bNhcgumGEBNGO3K2sSWk5I9gO/view?usp=sharing`

Positions of Responsibility

IEEE NITK   *NITK, Surathkal*
Envision Co-ordinator   *October 2019 - Present*
• Circuits and Systems Society (CASS)
• Signal Processing Society (SPS)
• Responsibilities include helping the chairs to manage the Special Interest Group(SIG) and overlook the complete management of Envision which is an IEEE NITK initiative to help the 1st year applicants get hands-on and theory experience by performing projects with them and mentoring them in certain fields and also mentoring one year-long project.

Flying and Robotics Club   *NITK, Surathkal*
Robotronix Head   *October 2019 - Present*
• Responsibilities include administrating the electronics SIG and ensuring the adequate completion of projects, looking after the recruitment for the club and mentoring a year-long project.

NITK CSD Robocon Team   *NITK, Surathkal*
Executive Member, Electronics Division   *July 2020 - Present*
• Responsibilities include helping the electronics subsystem to come up with and implement the electronics parts of the bot being made for the Robocon Competition.