

KARTIK KULGOD

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AREA OF INTERESTS

Interest lie in Robotics, Signal processing, Computer architecture and Organization as well as Electronic design.

EDUCATION

Birla Institute of Technology & Science, Pilani - KK Birla Goa Campus

Bachelor of Engineering, Electrical and Electronics Engineering August,2015 - Present
CGPA: 8.78/10

City International School, Pune, India

High School April 2015
Overall performance: 96.80%

The Bishop's Co-Ed School, Pune, India

Primary School March 2013
Overall performance: 94.80%

RELEVANT COURSEWORK

Electrical and Electronics Engineering: Electrical Machines, Digital Design, Electronic Devices, Electromagnetic Theory-I, Electrical Sciences, Microprocessor & Interfacing[†], Microelectronics circuits[†], Control Systems[†], Signals and Systems[†].

Interdisciplinary: Computer Programming, Multivariable Calculus, Linear Algebra, Ordinary Differential Equations, General Physics, General Physics, Thermodynamics.

([†] courses will be completed by the end of Spring 2017)

PROJECTS

Hyperloop India

Electrical and Electronics engineer at Hyperloop India
Working on navigation mechanism, auxiliary drive and related electronics, as well as procuring real time pod parameters as a part of Hyperloop India, which is participating in the SpaceX Hyperloop Pod Competition and Hyperloop One Global Challenge.

ABU Robocon

Developing a robot that can throw frisbees accurately at specified points. Worked on writing code for controlling actuators and transmitting data among different microcontrollers using I²C protocol.

Bug bots

Swarm robotics using miniature bots moving on the basis of vibrations inspired from Harvard's Kilobot Project. Completed as a part of quark Summer Technical Project.

Li-Fi

Built a simple circuit that could transmit a bit stream using a LED and Light Dependent Resistor, which included sinusoidal noise in the background.

TECHNICAL SKILLS

Experienced : C, MATLAB, Arduino, Verilog, HTML5, CSS3.

Familiar: Gazebo, Cadence Virtuoso, Assembly language (Intel x86 and Atmel ATmega), Python.

SCHOLASTIC ACHIEVEMENTS

- KVPY Scholar
- All India Rank of 1091 among 1.5 million students in JEE (Main)
- School Topper for National Science Olympiad, International Mathematics Olympiad, National Cyber Olympiad for several years

MENTORING EXPERIENCE

Mentored students on Introductory Electronics for Robotics as a part of Electronics and Robotics Club and Centre for Technical Education initiative which included a capstone project of building a **Micro Servo Robotic Arm**.

EXTRA CURRICULAR

- Sports: Plays Squash regularly.
- Music: Plays Guitar often.
- Participated in Arduino Open, Embition, Boolean Beatdown, Bullion Beatdown during Quark 2017, Department week & Waves.
- Setting up personal website on: <http://www.kartik-kulgod.github.io> using HTML5 and CSS3