

DHEERAJ

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CURRENT RESPONSIBILITY

Working for Baja SAE India 2018

Vibration Damping by Piezoelectric Disc, CVT tuning using an IR sensor, Speedometer/Odometer designing using Hall Sensor, Aligning the orientation of the steering wheel according to the arm force, fuel indicator using flow meter sensor, PCB designing using Proteus/Eagle.

Research project on Hologram

Data compression by virtual Holography, Application of Fourier Series in forming the equation of Hologram, Practical implication of pyramid Hologram.

TRAINING AND PROJECTS

Training at Intel Pvt. Ltd

December 2015-January 2016

Machine learning , Learning concepts of Embedded systems and PCB Designing.

Baja SAE India and Enduro Student India

Indore & Buddha Circuit, Greater Noida (February 2017) Head of Department Electronics for Team Audacious , DIT University.

Designed and implemented the car's dashboard with Speedometer, Fire Sensor and Gear Shift indicator. Also responsible for the entire electrical wiring system of the car. Stood 9th/154 teams in endurance.

RC-Ornithopter-Flapping Using Mechanism.

It's a drone which fly by flapping wings all control by Electronics components(Dc-Brushless motor, Servo motor and remote) and embedded System.

EDUCATION

DIT University: Dehradun , India - Electronics and Communication Engineering(B.Tech-3year)

August 2015 - May 2019

Delhi Public School, Hissar , Haryana(Secondary Education)

August 2015

SKILLS

PCB designing and diagnostic for digital, analog mixed signal Embedded system circuits. Basic programming in C/C++, Sensor Fusion.

Eagle, Multisim , Proteus VSM, Arduino.

Aware of technology such as SPI, I2C, UART, PWM, AVR Controllers etc. and have hands on experience with module such as GSM, Bluetooth, Wi-Fi and different sensors.

OTHER EXPERIENCE

IEEE Student Branch -DITU Dehradun ,Branch Chair

Nov 2015 - Present

Conducted workshops on Robotics, Arduino, Design Thinking & IOT applications and PCB Designing in College, Seminar on Hologram. Participated in IEEEExtreme Programming Competition and website competition.

Team Audacious- Electronics Head

Dec 2016 - Present

AWARDS

Winner, "Regeneration of a hologram from a slice" First Position in Paper Presentation at IIT-Roorkee (MAR-2016),AIR 5th in Ignite Award by BAJA SAE INDIA 2018(Vibration damper).