DHEERAJ

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CURRENT RESPONSIBILITY

Learning and working on STM32 Microcontroller IC for medical purpose devices.
Implementation and observation of ECG and BP device circuit using Eagle/Proteus.

TRAINING AND PROJECTS

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 at Intel Pvt. Ltd

December 2015-January 2016

Learning concepts of Embedded systems and PCB Designing.

Baja SAE India and Enduro Student India 2017-18

Head of Department Electronics for Team Audacious, DIT University.
Designed and implemented the car's dashboard with Digital Speedometer(weight-300gm) using Hall Sensor, Fire Sensor, CVT Tuning using an IR Sensor, Lap Counter, Fuel indicator using Flow Meter sensor, Aligning the orientation of the steering wheel according to Arm Force and responsible for the entire electrical wire system of the car.

Vibration Meter and Battery Charger

The Vibration module based on the vibration sensor SW-420 and Comparator LM393 to detect if there is any vibration that beyond the threshold. The threshold can be adjusted by the on-board potentiometer. When there is no vibration, this module output logic LOW the signal indicate LED light, and vice versa. Controller Arduino Board

Summer Internship at Sunfox Technologies Pvt. Ltd

PCB Designing of ECG Device(Spandan) using STM32 Controller Ics and code generation using CUBE-MX and Atollic True Studio.

EDUCATION

DIT University: Dehradun, India - Electronics and Communication Engineering(B.tech)

August, 2015 – May, 2019

Delhi Public School, Hissar, Haryana (Secondary Education)

May, 2015

SKILLS

PCB designing and diagnostic for Digital, Analog and Mixed signal circuits, Circuit debugging, Electronic circuit in vehicle, Basic programming in C, aware of different protocols like SPI, I2C, UART, CAN, USB and knowledge of different sensor and modules (Sensor Fusion).

Systems with Hands on experience

Proteus, Eagle, Ki-Cad, GRBL Control, FlatCAM, Arduino, **STM32**(Beginner), CUBE-MX, Atollic True Studio, STM32 ST-Link

OTHER EXPERIENCE

IEEE Student Branch -DITU Dehradun, Branch Chair

Conducted workshops on Robotics, Arduino, PCB Designing in College, Seminar on Hologram. Participated in IEEEXtreme Programming Competition and IEEE Website Competition (Team Leader).

Team Audacious- Electronics Head

AWARDS

First Position in Paper Presentation(Regeneration of Hologram from a slice) at IIT-Roorkee, AIR-5 in Ignite Award by BAJA SAE India, State Rank 2 in Mobile Robotics Competition(India Skill 2018)