

## **Rithvik Patibandla**

Second Year Undergraduate

Department of Electrical Engineering

Indian Institute of Technology, Kanpur

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## **Work Experience**

- Electrical subsystem, Autonomous Underwater Vehicle – IITK
  - December 2015 – Present
- Secretary, Robotics club – IITK
  - July 2016 Present
- Web executive, Core Team, Science & Technology council – IITK
  - April – June, 2016
- Senior executive, Web Team, Inter IIT Sports Meet 2016
  - May – August, 2016
- Junior executive, Finance, Techkriti 2016

## **Projects**

### **Battery Management System**

Made a battery management system (BMS) for AUV-IITK. It divides the batteries into two voltage lanes – 12V, 5V and supports undervoltage protection, overvoltage protection and overcurrent protection. It displays voltages and currents in both lines on a GLCD display and calculates power consumption of the vehicle. Schematic and PCB design of the first prototype can be found here:

<https://github.com/rithvikp1998/BMS>

### **Web Development**

- Made the backend of a website for Inter IIT Sports Meet 2016
  - <https://github.com/rithvikp1998/interiit>
- Made a website for science and technology council of IITK
  - <https://github.com/rithvikp1998/wiki>

## **Education**

- B.Tech, Electrical Engineering, IIT Kanpur, Kanpur, Uttar Pradesh – CPI 6.4/10 – July 2015 – Present
- TSBIE, Sri Chaitanya Narayana Junior College, Hyderabad, Telangana – 97% 2013 - 2015
- SSC, New Vision High School, Khammam, Telangana – CGPA 9.5/10 – 2012 – 2013

**Computer Languages:** Python, C, HTML, CSS, JavaScript, SQL, PHP

**Tools:** Altium, Git, Multisim, Solidworks

**Skills:** Arduino, Full stack web development, Android app development, Linux command line