**SONU KUMAR KEDIA**
Department of Mechanical Engineering
Indian Institute Of Technology, Ropar
Second Year Undergraduate

Nationality: Indian
DOB: 26/07/1999
Contact No: +91-9815235665
Email-Id: 2016meb1142@iitrpr.ac.in

## DEVELOPMENT PROJECTS

- **DRON DIGITAL SERVICES**
  (*Title*: - *Co-Founder and VP Technology*)
  Dron Digital Services Pvt. Ltd. is my startup started in year 2017; we implement app, website and hardware system according to the demand of college. We have different portals and we make a customized system according to need of college. I am the only developer of its website and Android app. (Live link - https://www.dron.limited )

- **Student Affairs Website, IIT ROPAR**
  It is a website linked with the IIT Ropar main website which contains the entire event schedule, information, galleries, contacts of cultural, sport, hostel, Technology affairs. Student can also submit complain using this website, this website only allow student of IIT Ropar to submit complain. (Live link – http://www.iitrpr.ac.in/student-affairs )

- **Advitiya 2017 Website, IIT ROPAR**
  Advitiya is the Technical Fest of IIT Ropar, Last year more than 60 colleges and more than 800 students had registered for events. All the registration, detailing, mailing for the events conduct through its website and I was the only developer of its back-end last year 2017 (Live link – http://www.advitiya.in )

- **Complaint Forum Website, IIT ROPAR**
  It is a website linked with the IIT Ropar main website, it works with Google Api which allows only student of IIT Ropar to submit their complain, there is also admin who used to reply complain. Complain are open to view for everyone and student can up vote the complaint. (Link – Coming soon)

- **URBIFY**
  A website developed in hackathon event embedded with all the important features that rural areas need the most. This website provides features like Hangout with doctors, Emergency contacts, embedded train and bus time-table, e-education, online ads, news, event calendar. People can also sell and buy services and product.

## ACADEMIC PROJECTS

- **Automatic Bike Stand Retrieve System**
  (*Guide*: - Dr. Anshu Dhar Jayal, Assistant Professor, IIT Ropar)
  Project related to the course Product, Design and Realization. It was a modified form of bike stand which automatically lift off when we plug key in bike while keeping bike perpendicular to the ground. It can prevent road accident related to bike stand.

- **Electromagnetic Linear Accelerator**
  (*Guide*: - Dr. Srikant S. Padhee, Assistant Professor, IIT Ropar)
  An intern in 1$^{st}$ year and designed a gun which is neither explosives nor propellant, but rather rely on electromagnetic forces to impart a very high kinetic energy to a projectile.

- **Railway Ticket Reservation & Management System**
  (*Guide*: - Dr. Sujata Pal, Assistant Professor, IIT Ropar)
  C program to manage entire railways reservation system. You can book ticket for 7 days, View schedule and seat availability; all the train details and tickets are stored using file-handling with base-26 encrypted. Admin with password can access tickets details, alter and append train's details.

## TECHNICAL SKILLS

- **Languages**– Java, C, C++, Python, PHP
- **Development –** Website, Android App, Chrome extension
- **Development Languages-** HTML, CSS, Javascript, AJAX, PHP, Java, XML, Python
- **Database –** MYSQL, MongoDb
- **Frameworks –** Jquery, Node.js, AngularJs, Bootstrap, Django
- **Operating Systems** – Windows, Ubuntu
- **Tools/Software** – Solid-Works, Photoshop, After-Effect, Excel, Matlab, Android Studio, Git

## EDUCATION

| Qualifications | Board | Institute | Year | CPI/% |
|---|---|---|---|---|
| Matriculation | CBSE | G. R. S. S. V. Mandir | 2014 | 10/10 |
| Intermediate/+2 | CBSE | G. R. S. S. V. Mandir | 2016 | 76/100 |
| Graduation | IIT Council | IIT ROPAR | 2016-Present | 6.26/10 |

## ACHIEVEMENTS

- Secured an AIR of 9988 out of 2.5 million candidates in **JEE Advanced, 2016**.
- Achieved 1$^{st}$ rank in the National Science Quiz 2014 among 32,000 schools held in 4 stages all over India, which is organized every year by Vidya Bharti Foundation.
- Achieved Top 4$^{th}$ position in the Hackathon event in Advitiya 2017, IIT Ropar among 19 colleges.

## RELEVANT COURSEWORK

Material Science and Engineering, Theory of Machines, Classical Mechanics, Engineering Mechanics, Energy Science and Technology (Thermodynamics), Production Design and Realization, Operations Research, Advanced Calculus, Ordinary Differential Equations.

## OTHERS

- **Strength:** Fast Learner, Management skill, Committed to work, Leadership skill, Teamwork skill
- **Spoken Languages:** English, Hindi.
- Currently an active member of the technical organization SME (Society of Mechanical Engineers), IIT ROPAR.