Shubham Suneja

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EDUCATION

IIT ROPAR
BTech in Electrical and Electronics Engineering
Expected May 2018 | Punjab, India
Cum. GPA: 6.66/10.0

SCHOLARS HOME
Higher Secondary
May 2013 | Dehradun, India
97.6 / 100

Secondary
May 2011 | Dehradun, India
9.2 / 10.0

LINKS

Github:// **sunejax**
LinkedIn:// **shubhamsuneja**
Twitter:// **@sunejax**

COURSES

UNDERGRADUATE
Embedded Systems
Image Processing & Pattern Recognition
Digital Signal Processing
Control Systems
Data Structures

SKILLS

PROGRAMMING
Advanced:
C++ • C • Python • PHP • Matlab
HTML • CSS • JavaScript • LaTeX
Moderate:
MySQL• PostgreSQL • Assembly
Embedded C • TMS C • ColdFusion• Go
Familiar:
AS3 • iOS • Rails • Android

LANGUAGES - CEFRL
English
Professional Proficiency
Hindi
Native Language
Japanese
Intermediate

EXPERIENCE

AUTOMATION | TATA Automation Limited | Summer Intern
May 2017 – July 2017
- Developed a Product Recognition System using Multi-Scale Colour Features, Hierarchical Models and Particle Filtering
- Used colour feature detection in combination with qualitative hierarchical models for representing the product.
- Particle filtering with hierarchical sampling for tracking.
- Worked with Raspberry Pi • Shell • Python • Watchdog • TRIO BASIC

SELF BALANCING BOT | IIT Ropar | Summer Intern
May 2016 – Sept 2016
- Developed a Bot that can balance itself on two wheels.
- Worked with the Digital Motion Processor (of MPU6050 - the IMU) as well as a Kalman Filter for sensor fusion to benchmark computational efficiency.
- Employed PID Feedback control method.

ACHIEVEMENTS

ADOBE | Portfolio Maker WebApp | Coldfusion Challenge
Dec 2016 | Winner First Prize $300 | stu_man_con
- Developed a WebApp where users can enter their information and choose from multiple templates to create a portfolio website.
- Worked with Coldfusion • PostgreSQL • HTML5 • Vanilla JS • CSS3 • AWS Heroku

ACM ICPC | ICPC Regionals Kharagpur
Dec 2016 | Under 70 from 1500 teams

MINDSUMO | Club Recommendation Web App
July 2016 | Winner First Prize $100 | recom
- Developed a club recommendation WebApp which uses KNN and KdTree optimized KNN to generate recommendations.
- Worked with PHP • PostgreSQL • HTML5 • Vanilla JS • CSS3 • AWS • Heroku

AUTODESK | VR 3D Model Viewer
May 2016 | Winner First Prize $100 | vriewer
- Made a side-by-side HTML5 Motion Event Synchronised 3D Viewer for Google Cardboard in which a user can upload and view any 3D model. Using Autodesk View and Data API
- Worked with PHP • PostgreSQL • HTML5 • Vanilla JS • CSS3 • REST API OAuth2 • AWS • Heroku

INTER-IIT TECHMEET | Tech Quiz
Jan 2016 | Winner

IEEE | Intracollege Circuit Design Competition
Dec 2015 | Winner

SOCIETIES

Year	Role	Organisation
2016	Chief Editor	Kshitij The College Magazine
2015	Executive Member	Robotics Society
2015	Editor	Kshitij The College Magazine