Shubham Suneja

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EDUCATION

IIT ROPAR

BTECH IN ELECTRICAL AND ELECTRONICS ENGINEERING Expected Dec 2018 | Punjab, India Cum. GPA: 6.45/10.0

SCHOLARS HOME

HIGHER SECONDARY May 2013 | Dehradun, India 86.4 / 100

SECONDARY

May 2011 | Dehradun, India 9.2 / 10.0

LINKS

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

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.

PROJECTS

DEGREE PROJECT | ACTIVELY COMPENSATING EXOSKELETON | APATH Present | projects.shubhamsuneja.me

- A ffordable P reventative and A ssistive T echnology for H ealthcare.
 Developing an affordable active exoskeleton mechanism in collaboration with InnotecUK, TWI.
- Collecting human motion data through Microsoft Kinect, IMU's and EMG sensors to record and then employ a CNN to extract necessary features with an end goal to predict **intent** of motion.

ADOBE | PORTFOLIO MAKER WEBAPP | COLDFUSION CHALLENGE

Dec 2016 | Winner | 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

MINDSUMO | CLUB RECOMMENDATION WEB APP

July 2016 | Winner | 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 | 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

COURSES

UNDERGRADUATE

Embedded Systems Control Systems Data Structures

ONLINE COURSES

Algorithms
Machine Learning

ACHIEVEMENTS

2016 top 70/1500 ACM ICPC Regionals Kharagpur
 2015 Champion InterIIT Techmeet
 2015 1st/50 IEEE Design Competion
 2014 AIR 3754 IIT JEE Advance
 2014 Percentile 99.91 IIT JEE MAIN

SOCIETIES

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