

Siddhant Manocha

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Educational Qualifications

Year	Degree/Certificate	Institute(Board)	Performance
2012-Present	BTech , Computer Science and Engineering	Indian Institute of Technology, Kanpur	9.9/10.0
2012	Senior School Certificate(CBSE)	Lawrence and Mayo Public School ,Kota	96.2%
2010	Secondary School Certificate(ICSE)	St.Thomas College,Lucknow	95.8%

Scholastic Achievements

- Ranked in top 10 students in the institute among 836 students. Received 10.0/10.0 in 2nd, 3rd and 4th semesters
- Awarded the Academic Excellence Award for the academic year 2012-13 by IIT Kanpur for exceptional academic performance
- Received Summer Undergraduate Research Grant for Excellence (SURGE) 2014, given by, IIT Kanpur
- Secured All India Rank 100 in IIT-JEE 2012 among 500,000 candidates
- Selected for Kishore Vigyan Protsahan Yojna (KVPY) in 2012

Experience

- Vision Based Robot Motion Planning** SURGE | May 2014-July 2014
Mentor: Dr .Amitabha Mukerjee, Department of Computer Science and Engineering, IIT Kanpur
 - Devised an algorithm to automate the motion and plan the trajectory of CRS Robotic arm using computer vision, image processing and Gaussian models.
 - Implemented Gaussian Process Latent variable model and Gaussian process regression to figure out the mapping between joint angles of the robotic arm and corresponding images for various configurations for trajectory planning
 - Recovered the joint angles from the corresponding images with about 99.5% accuracy and generated a smooth trajectory between unknown robot configurations with solution sufficiently close to ground truth solution
- Co-founder at Fundebaazi.in** January 2014-Present
 - Founded a web based interface to enable people to access career advice easily and efficiently from authentic advisors
- City Watch, Crowd Source Android Application** Android Application | December 2014
 - Conceptualized a crowd source solution to address local infrastructural issues in the city and report problems to the municipal government for immediate consideration
 - Developed an Android Application using web standards(HTML,CSS,javascript,PHP) through Intel XDK framework
 - Awarded 2nd prize in Software Development amongst 12 teams at Inter IIT Technical Meet held at IIT Bombay
- My Impress, Cloud Based Presentation Software** Web Application | May 2014-June 2014
 - Designed an online platform to create presentations with cloud support and improved presentation transition effects
 - Utilized Impress.js framework and Web standards(JavaScript,PHP,MYSQL)to construct an online editing and hosting platform
 - Improved graphics, transitions and 3 dimensional scale , zoom and rotate features for the slides , its being open source and absence of dependencies on specific software other than browsers distinguished it from conventional presentation tools
- Other Applications**
 - Programmed a *Facebook Application* that enables users to search for posts through their wall, their friend's timeline and user groups and enables them to post same comment on multiple posts
 - Developed the app *Picachu in Yahoo Hack-U* that comprised of Google chrome plugin and facebook application to facilitate the users to edit photos (via HTML 5) online and post them directly as facebook comments

Technical Skills

Programming languages : C, C++, Perl, Bash, HTML, JavaScript, CSS, PHP, MYSQL

Platforms/Tools : Windows, Linux, Octave, GNU Plot, Latex, Matlab

Relevant Courses

- Computer Science**: Data Structures and Algorithms, Fundamentals of Computing, Computer Organization ,Computing Laboratory, Operating Systems , Computer Networks , Theory of Computation
- Mathematics** : Linear Algebra, Discrete Mathematics, Abstract Algebra, Fundamentals of Calculus. (*:ongoing)

Positions of Responsibility

- Secretary, Programming Club, IIT Kanpur
 - Organized lectures at the hall level ,promoted participation in programming events and mentored juniors in Summer Project
- Academic Mentor, Counseling Service, IIT Kanpur
 - Provided academic assistance to students from junior batches in Fundamentals of Computing (ESC 101)

Extra-Curricular

- Awarded 2nd position in Software Development among 12 teams at Inter IIT-Technical Meet 2014 held at IIT Bombay
- Secured second position in BattleCity and El Eduvate events in Techkriti, annual technical festival of IIT Kanpur
- Won first prize in Web-Development in Intra-Hall Technical Fest (Takneek) held at IIT Kanpur

DOUBTS:

- 1) Actually in inter IIT Technical meet 8 different IIT's did participate . It had 10 teams , I mentioned 12 above ? Can we exaggerate to 30 , does it matter?
- 2)I tried to improve the point under presentation software part under result ? does it need to specifically contradict or to be shown better than Powerpoint. I may be submitting same resume for Microsoft as well . How far can it be improved?
- 3)I added a small point of project mentor under PClub Secy . Does it need to be elaborated?
- 4)As academic mentor , I was involved in one on one mentoring. Do I write of conducting lectures instead.
- 5)In takneek (3rd point extra curriculars) , there were 4 different teams from each hall. Is it worth to mention number of teams over there.
- 6) Is the heading EXPERIENCE for projects and others justified ?
- 7_) do I need to give entire detail of the mentor??
- 8) there were around 15 teams in el eduvate and around 20 teams in battlecity ? Do I split this in two different lines or try to accommodate them on the same line or just omit it?