



Abhijith Chunduru | ED10B047

Indian Institute of Technology Madras



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EDUCATION

Program	Institution	%/CGPA	Year of completion
Dual Degree in Engineering Design	Indian Institute of Technology Madras, Chennai	9.13	2015
XII	S.B.O.A Chennai	95.8	2010
X	S.BO.A Chennai	93.2	2008

SCHOLASTIC ACHIEVEMENTS

- Won the DAAD scholarship for pursuing a research internship at Karlsruhe Institute of Technology, Karlsruhe, Germany (May – Jul 2013)
- Won Bhagyalakshmi Iyengar Award and a silver medal for the best academic record during the 3rd and 4th semesters
- Won 1st prize in DESMOD 2013 – a design and modeling competition at Shaastra, annual technical festival of IITM
- Secured All India Ranks : 2860 in IIT-JEE 2010 and 365 in AIEEE 2010
- Stood School 3rd in Board Examination, Class XII

COURSE WORK OF INTEREST

- Introduction to Machine Learning
- Biomedical Signal and Image Processing
- Introduction to Field and Service Robotics
- Combinatorial Optimization
- Differential and Computational Geometry
- Introduction to Computation and Visualization

SOFTWARE SKILLS

- C, C++, Java, HTML
- Android Development
- MATLAB, Mathematica
- IRIT, CGAL, Basic Open CV
- AutoCAD, Autodesk Inventor

PROJECTS

- Solved a problem statement for General Motors Technical Center Pvt. Ltd (Jun-Nov 2012)
 - Worked under the guidance of Dr. M.Ramanathan (Assistant Professor, Engineering Design Department)
 - Used the solid modeling kernel IRIT to develop software for solving distance queries between curves and surfaces in the domain of exact computation
- Worked on developing an android application for Improved management of resources in rural areas using data stored in maps (Dec 2012)
 - Worked under the guidance of Dr. Palaniappan Ramu (Assistant Professor, Engineering Design Department)
 - Only developed the initial interface – Phase 1 of the project
- Developing an android application for helping patients adhere to their medical schedule (Aug – Nov 2013)
 - As a part of course work – Product Design Lab 3

PROFESSIONAL EXPERIENCE

- Research Internship at Institute of Theoretical Informatics, Karlsruhe Institute of Technology, (May – Jul 2013)
Karlsruhe, Germany
 - Worked under the guidance of Dr. Martin Nöllenburg on improving the error rates in an existing heuristic to generate Circular Arc Cartograms.
 - Libraries used - CGAL
- Formula Student Germany, 2013 (Aug 2013)
 - Participated as a non team member in Formula Student Germany 2013 held at Hockenheim Ring, Baden-Württemberg, Germany

POSITIONS OF RESPONSIBILITY

- Senior Team Member, a team of 3, worked on a problem statement for General Motors Technical Center Pvt. Ltd (Jun - Nov 2012)
 - Implemented foot point distance as a measure of distance computation between curves and surfaces using exact computation

PUBLICATIONS

- Abhijith Chunduru, Bharat Ram Sundar, Rajat Tiwari, Ramanathan Muthuganapathy, Ashish Gupta, **Foot point distance as a measure of distance computation between curves and surfaces**, to be published in **Computers and Graphics 2013**
 - Appeared in the proceedings of CAD/Graphics 2013 (presented in Nov 2013 at Hong Kong, China), published by IEEE Conference Publishing services

CO-CURRICULAR ACTIVITIES

- Member of Raftar, Formula Student Team at IIT Madras (Sep 2011 - Jun 2012)
 - Designed and fabricated the steering system of a formula type car that participated in the Formula Student-UK (2012) held at Silverstone, UK

EXTRA-CURRICULAR ACTIVITIES

- NSS Teaching Program – IIT Madras
Served as a volunteer for the teaching program at Taramani Government School for a period of 5 months (Aug 2010 - Dec 2010)
- Drawing, Painting, Jogging, Playing Cricket, Table Tennis

OBJECTIVE

To secure an internship at a fast paced, highly motivating environment where I can assist others while challenging and expanding my knowledge.