

Vinay Krishna Tharigopula



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TO FIND A CAREER THAT IS BOTH INTELLECTUALLY CHALLENGING AND REWARDING

EDUCATION

Carnegie Mellon University 2008-2010	<ul style="list-style-type: none">• Master of Science in Mechanical Engineering• GPA: 3.63• Won in-class competitions (See Website)• Multiple projects in Design (See Projects)	Pittsburgh, PA
VIT University 2004-2008	<ul style="list-style-type: none">• Bachelor of Technology in Mechanical Engineering• GPA: 3.60• First Class with Distinction• CAD Competition First Prize for 2 years	Vellore, India

WORK EXPERIENCE

Bentley Systems Inc June - August 2009	<ul style="list-style-type: none">• User Experience Design Intern• Worked on User experience issues with Microstation v8i• Conducted Usability labs and workshops• Created a Experience evaluation system	Philadelphia, PA
Same-Deutz Fahr Nov - Dec 2006	<ul style="list-style-type: none">• InPlant Trainee• To optimize the manufacturing and assembly lines• To use DFA and come up with varied methods• Learnt the various parts that go into a Tractor	Vellore, India
Amara Raja Batteries May - June 2006	<ul style="list-style-type: none">• InPlant Trainee• To attend to the manufacturing of Plastic parts• Used Injection molding machines up-to 800 tons force• Also worked with 6-sigma Testing and Inspection departments	Tirupati, India

ON CAMPUS EXPERIENCE

Teaching Assistant Spring 2010	<ul style="list-style-type: none">• Mechatronic Design Class• Help Teams design and construct in the machine shop	Pittsburgh, PA
Classroom Tech Inspector Oct 2008 - Dec 2009	<ul style="list-style-type: none">• Media Technology Services• Maintenance and Repair of Classroom equipment	Pittsburgh, PA

HONORS AND AWARDS

- CAD Competition Winner: December 2006 and December 2007 , University Competition Winner (First Place)
- Lead the First Indian SAE Mini-Baja team to compete in dynamic events in the USA
- State Award for Mini Baja Team in form of financial support of INR 500,000.
- First Place Winner in final competition in Mechatronic Design
- First Place Winner in final competition in Engineering Computation.

PROJECTS (CHRONOLOGICAL)

Extraction of facial features for Spectacles	<ul style="list-style-type: none"> • Masters Project • Input as front profile and side profiles of human face • Ability to extract accurate distances from casual pictures • Provide an online system to aid in selection and design 	Ongoing Individual
Online Interactive System for Collectors	<ul style="list-style-type: none"> • Part of Human Computer Interaction Methods • Designed a website to organize and showcase collections • Worked with Contextual inquiries and Think Aloud sessions • Cog Tool analyses for various design to maximize efficiency 	December 2009 Team
Keyboard Playing Robot	<ul style="list-style-type: none"> • Part of Mechatronic Design Class • Sole Mechanical Designer in Team • Designed a Unique free wheeling finger design • Robot could play up-to 10 notes a second 	April 2009 Team
Next Generation Construction Safety	<ul style="list-style-type: none"> • Part of Integrated Product Development • Designed an electronic system for commercial construction • Started from scratch to final 3D Printing and Marketing • Worked on the designs and stress analysis parts specifically 	April 2009 Team
Trachea Diameter Measuring Device for Children	<ul style="list-style-type: none"> • Part of Initial Masters Project • To design a device that can measure diameter accurately • Investigated various designs and material approvals • Did Initial designs and preliminary testing 	December 2008 Individual
Ergonomic Laptop Re-Design	<ul style="list-style-type: none"> • Final Bachelors Project • Height adjustable laptop to allow for neck strains • Isolated Technical risks and designed to specific needs • Modelled, Analyzed and Rendered in Solidworks 	April 2008 2 Member Team
SAE Mini-Baja	<ul style="list-style-type: none"> • Personal Project and Competition • Team Captain for the first year • Designed the Power-train and fabricated it for both years • Prepared the comprehensive cost and design reports 	April 2008 June 2007 Team
Continuously Variable Transmission Redesign	<ul style="list-style-type: none"> • Personal Project • New design for Continuous Power Transmission • Eliminated differential requirement by auto Torque adjustment • Patent Pending with Provisional Specification filed 	December 2007 Individual

MORE DETAILS AND FILES ARE AVAILABLE ONLINE ON MY WEBSITE

INTERESTS AND SKILLS

CAD Programs

Solidworks 2003+
Catia r5
AutoCad Inventor 2010
ProE Wildfire 3.0+

Computer languages

C++
SQL / Oracle
HTML,PHP

Operating Systems

Windows XP,Vista,7
Linux Ubuntu,Redhat,Fedora
Mac OS X 10.4+