Prem Vaidyanathan Kailat

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EDUCATION

Masters of Science, Mechanical Engineering, Robotics Track — May 2009
Univeristy of Utah, Utah, US, GPA : No grade yet

Bachelor of Engineering, Mechanical Engineering — May 2007
Fr. Conceicao Rodrigues Institute of Technology, University of Mumbai, India; GPA: 3.7

PROJECTS

Title : Design, Fabrication and Control of Robotic Arm

- The objective of the project was to imitate movement of the human arm by robotic arm
- The major emphasis was the imitating circuitry board for the slave arm
- Used AutoCad and Circuitmaker to design and test.

EXPERIENCE

Teaching Assistantship for course Fluid Mechanics under Dr. Meredith Metzger, University of Utah.
Worked in the Marriott Library as Library Aide (Serials Department)
Working for Dr. Jake Abbott as a Research Assistant in TeleRobotics Lab.

SKILLS

Computer Skills:

Pro-E	AutoCad	C	Matlab	VisualBasic 6.0
SQL	DreamWeaver	Java	Lab View	SolidWorks
Unix	C++			

Related Coursework:

MachineLearning	Image Processing for Vision and Graphics	Fluid Mechanics
Artificial Intelligence	Partial Differential Equation	Robot Control
Numerical Methods	Geometric Motion Planning	Mechatronics
Manufacturing	Public Speaking	
Advanced Controls	Introduction to Robotics	

ACHIEVEMENTS

Academic

- Background of Computer Science, Mathematics, Physics and Chemistry all through secondary education
- Won Second Place in poster competition for topic AHU(Air Handling Unit) in ISHRAE(Indian Society of Heating Refrigeration and Airconditioning Engineers)
- Secured First Place in Scieence Environmental Project topic being the rain water harvesting.
- Helped make notes for professors for the subjects Mechanics(Statics/Dynamics) and Introduction to Artificial Intelligence.

Organisational

- Elected as Assistant Treasurer for Mechanical Engineering Students' Association(MESA)
- Elected as Cultural Secretary(Students' council representing the College) in Fr. CRIT
- Organised FACES '05 and '04 an intracollegiate cultural/sports event
- Part of the core committee for CRITERIA η_{max} '06 and '05 an intercollegiate technical festival with events like Robotics, ProE, Bike modification, Aeromodelling etc.
- Organized MESH, SYNERGY and ISHRAE quiz for Mechanical students at all levels.

Social

- Started a social awareness organization called ASA-SEWA (Agnel Seva Ashram - Save Electricity and Water Abhiyaan/Agitation) for protecting water and electricity resources
- Fully developed ASA-SEWA into ASC(Agnel Social Cell) which added to its vision the social charity(helping the children, old age and HIV infected kids), Civic conciousness and developing mind & spirit
- Worked as a volunteer with the Department of Mechanical Engineering, Utah to develop interest in girls towards engineering.
- Successfully completed the Directorate of adventure promotion certificate - basic campus course and basic outdoor adventure course and basic first aid course fire fighting rescue course conducted by Government of Maharashtra.
- Successfully organized blood donation camps in which more than 200 students donated their blood in the degree college.

PAPERS 'Co – Operation of the Human System with the Robotic System' presented at the university level