# Education

**Dmitri Rabinowitz**

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**Rice University**, Houston, TX August 2008-May 2012

***Bachelor of Science in Mechanical Engineering****, GPA: 3.82*

***Awards:*** 2011 Texas Regional Engineering Competition; NI Senior Design Prize

***Relevant Courses****:* Computer Aided Design, Stress Testing, Static Systems, Engineering Design, Robotic Design

***Senior Design Project****: Mechanical Engineering Design Student under Professor Fathi Ghorbel*

## Led a senior design project to CAD model and construct a robot able to navigate pipelines

* + - Project lead for engineer team responsible for appropriating duties, setting deadlines, and documenting
  + Designed robotic device focusing on a simple and flexible model able to drive through a 90˚ pipe turn
  + Developed sonar sensors for determining pipe geometry and translating this to intelligent turning
  + Presented results to investors through elevator pitches, booth discussions, and PowerPoint talks
  + Awarded $500 National Instruments design prize for success of design

***Multi-Robot Systems Lab Research:*** *Undergraduate researcher under Professor James McLurkin*

## Mentored as a senior mechanical engineer in swarm robotics lab and coordinated design projects

* + Guided freshmen engineers in developing several mechanical systems within the lab
  + Designed low cost transportable arcade console for system displays and presentations
  + Developed plan to produce a research display at the Museum of Science and Industry in Chicago

***Mechatronics and Haptic Interfaces Lab Research:*** *Undergraduate researcher under Professor Marcia O’Malley*

## Mentored as a senior mechanical engineer in swarm robotics lab and coordinated design projects

* + Assisted in design of haptic robotic arm holster for measuring and analyzing arm motion
  + Developed code for measuring and analyzing results of the haptic robotic testing holster

# Work Experience

**OSIsoft, LLC**, Philadelphia, PA August 2012-Present

*Customer Support Engineer under Team Lead Craig Torpey*

## Developed as a technical support engineer troubleshooting issues with the PI Data Historian Server

* + Troubleshoots big data server and client tools for storing, viewing, and sharing actionable data
  + Works with network configurations for maintaining consistent data flow from source to server to client
  + Focus on leveraging Microsoft offerings such as Excel, Sharepoint, SQL, Powerpoint, and Outlook
  + Implemented low cost programs to improve employ training and forum collusion on difficult cases
  + Traveled to Singapore for an office exchange program to train employees and share support best practices

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**Hansen Medical**, Mountain View, CA Summer 2011

*Mechanical Engineering Intern under Sr. Mechanical Engineer Alan Yu*

## Thrived as an engineering intern focusing on designing and modeling robotic components in CAD

* + Redesigned mounted robotic interface to simplify and expedite installation of disposable components
  + Managed several cross-departmental teams in designing a client facing training apparatus
  + Optimized production methods for disposable robotic components in order to reduce manufacture costs
  + Documented and organized work for a knowledge transfer at the conclusion of the internship

**India Institute of Technology**, Hauz Khas, New Delhi Summer 2010

*Mechatronics Lab Researcher under Professor S.K. Saha*

## Pioneered international research program in traveling to New Delhi to work in a mechatronics lab

* + Designed and optimized planar parallel arm robot for use in haptic tasks in Autodesk Inventor
  + Presented a research paper to the IFToMM 2011 World Conference in Mexico based on robot design

# Skills/Interest

**Computer:** PI System, Microsoft Office, Windows, SolidWorks, Autodesk, MATLAB and Simulink, LabVIEW

**Coding Languages:** VBA, VB.NET, C#, C++, HTML, XML

**Shop Proficiency:** Lathe, Mill, Dremel, band saw, sandblaster, gas and arc welding, extensive, power tools