Jeffrey Heigh

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OBJECTIVE: To apply the knowledge and experience that I have gained from my education and internship to obtain a full-time job in which I know that I will be a contributing and exemplary employee.

EDUCATION:

Rensselaer Polytechnic Institute **May 2010**
B.S. Mechanical Engineering; Final GPA: 3.26

EXPERIENCE:

Senior Design Project **Spring 2010**
Design of Mechanical Systems, RPI
- Worked as part of a multi-disciplinary team to complete a real-world project
  - Researched, designed, and constructed a wind tunnel test section to be used for a research project funded by Boeing.
  - Helped lead on design and construction of variable wall as well as other parts.

Summer Intern **Summer 2008**
River Bend Station, Entergy Corporation
- Worked with a team of engineers to solve issues in the power plant including:
  - Walked the plant to inspect and fix concerns that had been marked.
  - Classified degradation issues with pumps/valves, identified cause, impact on performance, and how to prevent problem in the future.
  - Analyzed a large number of maintenance procedures to reschedule their frequency and help save the company money.

Work Study **Fall 2007 - Spring 2008**
Provost Office, RPI
- Assisted with office tasks and completed independent projects.

Customer Service Associate **Summer 2007**
Kohl's Department Store
- Worked as a team, interacted with customers personally

LEADERSHIP:

Internal Vice-President; Tennis Club – RPI *(Fall 2007-Spring2008)* **Fall 2006 - Spring 2008**
Coursework: Leadership and professional development training.

SKILLS:

CAD: UGS NX 4.0 & AUTOCAD
Computer Programming: C, C++, JAVA, and FORTRAN
MATLAB: Modeling systems and general usage; SIMULINK
ABAQUS: Finite Elements software
Microsoft: Extremely comfortable with Windows, Office Suite

RELEVANT COURSEWORK:

***Design of Mechanical Systems*:** Completed a real problem with a multi-disciplinary team assigned by Boeing to design and construct a custom wind tunnel test section for testing synthetic jets.
Introduction to Finite Elements: Solved heat conduction, fluid mechanics, and mechanically based problems both by hand and by using commercial software.
***Boundary Layer and Heat Transfer*:** Studied both laminar and turbulent flows in-depth including topics such as Navier-Stokes, exact and inexact solutions, compressibility issues.
***Mechatronics*:** Studied system modeling, dynamics/physics, fluid, and electrical systems for the purpose of modeling a complete system design to avoid building expensive prototypes.