

GREG NEEDEL

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OBJECTIVE

To obtain a position as a Mechanical Design Engineer where I may combine my skills and creative mindset to solve challenging problems and develop new technologies for products.

EDUCATION

Rochester Institute of Technology, Rochester, NY

B.S., Mechanical Engineering T, Class of 2007

RELEVANT SKILLS

Mechanical

Machine Shop, Welding, ASME Y14.5M, HVAC Licensed (MD)

Software

Pro-e Wildfire, SolidWorks, Autodesk Inventor, MathCAD, Engineering Equation Solver (EES), Working Model, PTC Windchill, Microsoft Office.

Other

Red Cross Certifications: CPR, First Aid, Lifeguarding, Responding to Emergencies

RECENT WORK EXPERIENCE

Black & Decker Industrial Products Group, Mechanical Engineer

Dec. 07' – Present

- New Product engineer working on bringing new industrial products to market under DeWALT, Delta brands.

RIT Innovation & Invention Group, Lead Mechanical Engineer

March 07' – Nov. 07'

- Selected multi-disciplinary team which was charged with developing new technologies in the field of telepresence.

RIT Department of Mechanical Engineering, Teachers Assistant

May 07' – Nov. 07'

- Teach and Grade for Failure Mechanics Class
- Tutor for all classes in MET. Major

DEKA Research and Development, Co-Op

Dec. 05' – Sept 06'

- Engineer, worked on a team to develop a water purification system for developing countries.

RIT Machine Shop, Lab Aid

Sept. 05' – May 07'

- Taught freshman students to use standard machine tools: Mill, Lathe, Drill press, etc.

Autonomous Race Team (G-Cart), Co-Op

Nov 04' - March 05'

- Lead Mechanical Engineer/Designer for RIT's robotic vehicle entry in the DARPA Grand Challenge

Fred Needel Inc., Apprentice

March 04'-Sept 04'

- HVAC technician diagnosed and repaired problems and assisted with install air conditioning systems.

Direct Dimensions Inc., Co-Op

May 03' – Aug. 03'

- Worked with laser inspection tools and applied them to various industries, including engineering, art, medical

OTHER ACTIVITIES

FIRST Robotics Program

Jan 02' – Present

Team Mentor

- Team Leader, Present Team 2775. Past teams (73, 131, 768, 1511, & 1405)
- Mechanical Engineering leader, teaching high school students concepts and design of a robot.

Technical Contributor

- Presented seminar topic on "Building Competitive Manipulators" at the Championship event (2008)

Battlebots, Team Captain & Lead Designer

June 05' – Present

- Designer and builder of combat robots for various competitions.

Engineering House, Alumni of Engineering Fraternity at RIT

PUBLICATIONS

G.Needel, "Robotics as a Vehicle for Engineering Education" Proc. of ASEE St. Lawrence Section Conference, Toronto, Canada, 2007. –

REFERENCES AND RECOMMENDATIONS

Available upon request.
