

Andrew Zimmer

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OBJECTIVE: A challenging Electrical or Mechanical Engineering position focusing on new machine and component design.

EDUCATION: **Stevens Institute of Technology**, Hoboken, New Jersey
Bachelor of Engineering in Electrical Engineering
Expected Graduation: **May** 2004
GPA: 3.49 Dean's List

Major Subjects:

Communication Systems, Digital Signal Processing, Circuits, Microprocessors, Switching Theory, Calculus, Modeling and Simulation, Engineering Economics, Transport Phenomena, Chemistry, Materials Processing, Physics, Mechanics of Solids, Thermodynamics, Dynamical Systems, Computer Science, Engineering Design, Engineering Graphics and Tolerancing

SKILLS: **Hardware:** IBM PCs, Allen Bradley PLCs, GE PLCs
Software: AutoCAD2000, Micro Station, SolidWorks 2003, Visual Basic r. 6.0, RS Logix, Intellution iFix, Wonderware FactorySuite 2000, DaisyLab r. 5.5, MathCAD 8 MS Excel '00
Languages: Visual Basic, Java
Lab Skills: Wiring Electrical Panels, Welding, Machining, Instron Testing, Soldering, Drafting

WORK EXPERIENCE: **Ethicon, Inc.**, Equipment Development Department, Somerville, New Jersey
Engineering Assistant: 9/02 – Present

- Develop and improve State-of-the-Art production equipment for medical product.
- Evaluate current processes in production lines and made suggestions for improvement.
- Write software to improve communications between mechanics at distant production plants.
- Generate Capital Appropriations for new projects.

Stevens Institute of Technology, Institute Machine Shop, Hoboken, New Jersey
Machinist Assistant: 9/99 – Present

- Operate milling machine and lathe.
- Read blueprints and create parts based on specifications.
- Instruct Design Lab students on how to machine parts.

Automated Control Concepts, Systems Department, Neptune, New Jersey
Engineering Assistant: 1/02 – 5/02

- Developed HMIs for systems operations.
- Tested and modified PLC code.
- Set up test beds for customer evaluation.
- Edited VBA code for screen automation.

New York City Transit Authority, Electrical Engineering, New York, New York
Engineering Assistant: 5/01 – 8/01 and 5/00 – 1/01

- Developed software for power analysis.
- Researched, tested and improved PLC logic for fan plant operation.
- Diagnosed and resolved problems in field operations.
- Designed, renovated, and upgraded NYCT subways and buildings.
- Conducted field studies and prepared analytical reports and presentations.
- Designed a website containing NYCT Standard Drawings for contractor use.
- Researched and designed a device to measure clearances in subway tunnels.

ACTIVITIES: HKN Electrical Engineering Honors Society, Society of Automotive Engineers. Sigma Phi Epsilon Fraternity: House Manager

HOBBIES: Computers, Antique Automobile Restoration, Metal and Wood Working, Music