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## OBJECTIVE

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A highly self motivated, ambitious, and productive manager who will add significant value to your organization seeks a summer internship at an equipment manufacturer in the semiconductor industry

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## EDUCATION

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### B.S. ELECTRICAL ENGINEERING

Rose-Hulman Institute of Technology, Terre Haute, IN

May 2009

GPA: 3.24/4.00

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## SKILLS

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**RELEVANT PROCESSES:** Failure Mechanism Effect Analysis (FMEA), Out of Control Action Plans (OCAP), Statistical Process Control (SPC)

**RELEVANT SOFTWARE:** Datalog (Yield Analysis), PROMIS (Fab Line Control), JMP (Statistical Analysis) Office XP, 2003, 2007 Including Project and Advanced Excel Macro Coding, Windows 95, 98, 2k, XP, Vista

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## EXPERIENCE

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### QIMONDA NA – 200mm DRAM Manufacturing Facility; Richmond, VA

WETS (Wet Chemical Etch) Department Equipment Engineering Co-op

Spring 2007 to

Summer 2007

- Developed several highly productive and efficient data management systems with and without direction from superiors
- Managed 16 highly complex STEAG wet bench tool parameter audits spanning 5 months and 5 engineers
- Executed critical Wet Bottle Etch process window experiments for a 110nm to 80nm process jump
- Organized equipment refurbishments extending to delay contingency plans and vendor negotiations
- Effectively conducted additional short and long term tasks and projects with speed and efficiency

### ROSE-HULMAN INSTITUTE OF TECHNOLOGY – MEMS & Microfabrication Lab; Terre Haute, IN

Lead Researcher: Conductive Polymers and Carbon Nano-Materials in Supercapacitor Electrodes

Fall 2005 to

Winter 2006

- Lead and conducted research for presentation at Argonne National Laboratory Conference (see below)
- Managed equipment and supply purchases with regular progress reports, and relevant literature review

### NORTH CAROLINA FOOD BANK – Headquarters; Raleigh, NC

Information Technology Intern

Summer 2005

- Managed comprehensive evaluation of website portal
- Debugged on site network and increased employee confidence in IT system

### CASE WESTERN RESERVE UNIVERSITY – Equinox Research Program; Cincinnati, OH

Student, Research Assistant

Summer 2004

- Assisted with and evaluated ongoing micro-fuel cell research
  - Conducted faculty interviews in writing research paper on Micro-Fabrication Technology (see below)
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## HONORS & ACTIVITIES

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**LEADERSHIP:** Rose-Hulman Career Fair Co-Chair (2007-2009), ΠΚΑ Fraternity Alumni Relations Chairman (2006-), ΠΚΑ Fraternity Associate (Pledge) Class Vice President (2005-2006)

**RECIPIENT:** Dean's List (Q1,Q2,Q3), Forrest & Hazel Sherer Scholarship (2005-), Boy Scout Eagle Scout Rank

### ABSTRACTS/RESEARCH PAPERS:

- *Multiwall Carbon Nanotubes for Energy Storage in Electric Double Layer Capacitors.* Rose-Hulman Institute of Technology: 2006
- *The Evolving Role of Medium-Grained Parallelism for Market Success of Microprocessor Designs.* Working Paper, Revision 10
- *The Future of Micro-Fabrication Scaling to 22 nm.* Equinox Program, Case Western Reserve University: 2004