

JESSE A. HOUSER

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Objective To obtain an engineering position providing the opportunity to strongly contribute to organizational goals through continued development of technical skills and leadership abilities

Education **July 1999 – June 2004** **Kettering University** **Flint, MI**
Bachelor of Science in Electrical Engineering

- Relevant Coursework
 - Engineering/Science
Microelectronics, Microelectronics Processing, Solid State Devices, VLSI Design, Signals & Systems, Electronics I & II, Electromagnetic Fields, Power Electronics, Electrical Machines, Digital Signal Processing, Manufacturing Processes, Fundamentals of Problem Solving, Senior Design (automatic guitar tuner)
 - Mathematics
Calculus I, II, II, Differential Equations & Laplace Transforms, Probability & Statistics, Matrix Algebra
 - Humanities
Written & Oral Communications I & II, Leadership & Ethics, Principles of Economics, Behavioral Science, Sociology, History of the Modern World
- Activities and Awards
 - Kettering Scholar
 - Trade Secret DP#307409 (03/04/2002)
 - Publicity Director and Webmaster for Delphi-D Student Programs (2002 – 2003)
 - Volunteer tutor at Carver Center (2001 – 2003)
 - Adopt-A-Highway (1999 – 2002)
 - Relay For Life (2002)
 - Residence Hall Association representative (1999 – 2000)

Aug 1995 – May 1999 **Eastern High School** **Greentown, IN**
Honors Diploma – Summa Cum Laude

- GPA: 4.0/4.1
- Class Rank: Top 5%
- Advanced Coursework
 - AP Calculus, AP Physics, Advanced Chemistry, AutoCAD
- Activities and Awards
 - National Honor Society, Key Club, Math & Science Bowl, Sen. Richard Lugar's Symposium for Tomorrow's Leaders, Varsity Baseball, Marching Band, Kokomo Park Band, Volunteer at Kokomo Nesting Doves and Rescue Mission

Computer Skills Proficiencies: Word, Excel, Access, PowerPoint, FrontPage, Mathcad, Maple, SDRC Ideas, AutoCAD, MATLAB, SPICE, Mentor Graphics, Multisim, Motorola 68HC11, C, JAVA, Visual Basic for Applications, HTML

Experience June 1998 – Present**Delphi Delco Electronics****Kokomo, IN**

- Oct 2002 – Present Undergraduate Thesis
“Characterization of thin film platinum oxidation and its effect on electrical stability”
- Apr – June 2002 FAB III 8” Photolithography
Designed and performed an experiment that correlated stepper focus/exposure settings to in-process electrical (IPE) test results
- Oct – Dec 2001 MEMS Advanced Development
Developed, optimized, and proved capability of Deep Reactive Ion Etching (DRIE) processes for 20:1 aspect ratio and high speed through wafer etches
NB: Awarded a trade secret as a result of this work
- Apr – June 2001 Product Validation
Designed and constructed an audio test rack and wrote a Visual Basic for Applications (VBA) program to transfer test data from HP to MS Word format
- Oct – Dec 2000 Wafer Test
Conducted a study on edge chipping after wafer test
- Apr – June 2000 Forewarn Backup Aid
Installed the Backup Aid system in several vehicles, executed testing, analyzed data, and optimized radar module coverage fields
- Oct – Dec 1999 Product Testing and Validation
Created a VBA software tool to automate test plan generation, coordinated alpha and beta testing, and trained six engineering groups on the software tool
- June – Aug 1998 Hybrid Circuit Technologies
Verified software for laser resistor trimmers, operated an optical measuring device, and analyzed resistor balances

Aug 1997 – Dec 1999**The Pizza Place****Greentown, IN**

- Managed approximately 10 employees
- Prepared and delivered food products
- Performed regular inventory checks and purchased supplies

June 1995 – Aug 1997**Longrove Orchard****Greentown, IN**

- Operated heavy machinery
- Maintained buildings and equipment
- Cared for livestock by providing food, water, and a clean habitat

References Available upon request