

**Nick Klosterman**

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952 Westminster Place, Dayton, OH 45419  
(507) 990-9052  
nick.klosterman@gmail.com

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Recruiting Manager  
Belcan Tech Services  
11591 Goldcoast Drive  
Cincinnati, OH

Dear Recruiting Manager:

I am interested in the software controls engineer position posted on Monster.com.

I have extensive experience in product development and testing. At IBM & JDS Uniphase, I helped develop and modify LabVIEW code for integration and production testing. I've also implemented data logging to MySQL and SQLite databases and automatic graph generation for easy data analysis to complement production testing. I also have experience developing C++ and Java applications as well as utilizing Matlab as specified in the job description.

The software engineering position sounds like a wonderful opportunity, and I would welcome the chance for an interview to discuss your needs and outline my strengths in person. You may reach me at (507) 990-9052 or nick.klosterman@gmail.com. Thank you for your time and consideration of my resume. I look forward to speaking with you.

Sincerely yours,

Nick Klosterman

encl: Resume

# Nick Klosterman

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Dayton, OH 45419-3759

(507) 990-9052  
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EDUCATION    ♦ **Purdue University**, West Lafayette, IN  
Master of Science in Electrical Engineering, August 2010

♦ **University of Illinois at Urbana-Champaign**, Urbana, IL  
Bachelor of Science in Electrical Engineering, August 2001

WORK            ♦ **Research Assistant**, Purdue University August 2007 - July 2010

EXPERIENCE

- Updated weather visualization software with requested features from Purdue University's Earth & Atmospheric Sciences faculty.
- Implemented data color coding to allow for easier analysis of convection paths in simulation datasets.
- Implemented pop-up of 2D image slice of selected convection path.
- Co-developed education module that discussed pros, cons, and pitfalls associated with various software visualization techniques.
- Presented education module to Indiana Teachers as part of a workshop emphasizing computer visualization in the classroom.
- Presented Google Maps visualization exercise to Indiana High School students. The exercise demonstrated the geographic effect of a terrorist act in an urban and rural setting as part of a Homeland Security class.
- ♦ **Quality Engineer**, Siemens Energy and Automation, Bellefontaine, OH 2007
  - Analyzed customer's returned materials establishing root cause of failure.
  - Evaluated failures, identified solution, and implemented corrective action on manufacturing line.
  - Wrote technical documents reporting root cause failure of product to customer.
  - Conducted ongoing product reliability testing.
  - Implemented real time reliability plan to support product build up prior to plant shutdown.
  - Improved Visual Basic code for MS Access database to streamline data logging of samples and to make report generation easier.
- ♦ **Qualification and Integration Engineer**, IBM & JDS Uniphase, Rochester, MN 2001 - 2006
  - Performed optical to electrical and electrical to optical characterization tests on 1 Gb/s, 2 Gb/s, and 4 Gb/s fiber optic transceivers to prove compliance with Fibre Channel and Gigabit Ethernet standards. Tests included: Fiber coupled power, optical deterministic jitter, stressed receiver sensitivity, and mask margin.
  - Modified LabVIEW code to accommodate new products and additional tests.
  - Co-developed software to allow customer to interface with transceiver's onboard microprocessor. Provided live graph functionality as well as status notification of key onboard characteristics.

- Led review of product qualification report with lead engineers and product manager.
  - Wrote software to automate qualification report generation from MS Access database.
  - ◇ **Volunteer Research Assistant**, Mayo Clinic, Rochester, MN 2005
    - Developed software module for in house ANALYZE software suite allowing for analysis of Computed Tomography images.
    - Module performed kidney stone detection and sizing to determine health risk score for patient.
    - Volunteered time to learn more about commercial applications of image analysis.
  - ◇ **Wright-Patterson Air Force Base**, Dayton OH 2000
    - Developed Java applet simulating unmanned autonomous vehicles.
    - Implemented flocking algorithm to control vehicle interaction.
- PROJECTS
- ◇ **Backcountry.com Deal of the Day Tracker**
    - Wrote software to track deals of the day appearing on Backcountry.com's four outdoor & sports deal websites and notify users when items of interest are featured.
    - Alerts based off of keyword matching are sent via text message or email.
    - Details of featured deals logged to a MySQL database.
    - Developed online front-end to allow for users to add their own notifications as well as to view past product details from the product database.
    - Viewable online at <http://www.djinnius.com/Deals>.
  - ◇ **Investor's Business Daily 100 Stock List Financial Visualization**
    - Project analyzes advertised returns of Investor Business Daily 100 stock list versus what return a typical investor might experience.
    - Stock movements and rankings visualized to show movement of stocks onto and off of stock list.
    - Leveraged Prefuse visualization package for rapid construction of data visualization.
- SKILLS
- ◇ C++, Java, Bash scripting, MySQL, Visual Basic, HTML, Arduino uC,
  - ◇  $\text{\LaTeX}$ , MATLAB, LabVIEW, GNUPlot
  - ◇ \*nix, Microsoft, Macintosh
  - ◇ Digital Oscilloscope, Pattern Generator, Spectrum Analyzer
- PUBLICATIONS
- Arthur, D., Lasher-Trapp, S., Abdel-Haleem, A., Klosterman, N., Ebert, D., "A New Three-Dimensional Visualization System for Combining Aircraft and Radar Data and its Application to RICO Observations," Proceedings, 15th International Conference on Clouds and Precipitation 2008
- Maciejewski, M., Kim, S., King-Smith, D., Ostmo, K., Klosterman, N., Mikkilineni, A., Ebert, D., Delp, E., Collins, T., "Situational Awareness and Visual Analytics for Emergency Response and Training," IEEE International Conference on Technologies for Homeland Security, 2008.
- HOBBIES
- ◇ Avid Triathlete and Cyclist - Achieved 1st in Age Group at Caesar's Creek Triathlon 2011
  - ◇ Private Pilot License holder and Aviation Enthusiast