

PERSONAL STATEMENT

Seeking a challenging position in Research and Development that allows me to expand my knowledge and tackle new problems. I have experience and knowledge in C/C++, Java, C#, Interfacing Scientific Equipment, Robotics, RFID Tags, Autonomous Systems, Electronic Circuits, and Physics and Mathematical Simulations. My experiences and education has formed me to be a problem solver.

EDUCATION

- Bachelor of Science in Computer Science and Computational Physics, minor in Mathematics
Slippery Rock University of Pennsylvania, Slippery Rock, PA
Computer Science GPA – 3.9/4.0 Physics GPA – 3.6/4.0 Cumulative GPA – 3.6/4.0

HONORS / ACTIVITIES / AWARDS

- Ranked in the top 1% in 2007 and top 13% in 2008 for the International COMAP Mathematical Modeling Competition
- President of Physics Club Fall Semester 2006 and Spring Semester 2007
- Secretary of Upsilon Pi Epsilon and member of Sigma Pi Sigma and Kappa Mu Epsilon
- SRU Alumni Association's Outstanding Senior Man Award and Dean's List for last Six Semesters

PROJECTS

- Incorporated C++ builder, C Code, Assembly, and Serial Interface to communicate with the B12 mobile robot.
- Developed a voltage meter with serial interface using PIC microcontroller and additional circuitry.
- Utilized Genetic Algorithms and Geometric Clustering to optimize vehicle routing solutions with pick-ups, deliveries, and time windows.
- Completed a project to locate RFID tags and generate CSV., PDF., and Crystal Reports.
- Developed a VB application that will control the temperature of a liquid crystal sample cell to +/- 0.0001 degree Celsius and automate data collection.
- Presented Light Scattering and Microscopy Research at International Liquid Crystal Conference: Keystone, Colorado
- Presented Vehicle Routing Problem at INFORMS International Conference: Puerto Rico 2007
- Presented various research projects in the 2006 and 2007 Slippery Rock Research Symposium
- Created Planetarium Shows for Slippery Rock University's Planetarium

EXPERIENCE

Owner/Manager : KDS Network – Wampum, PA (1999 - Present)

- Great opportunity to learn how to manage and work with employees and customers while giving me a great background in the workings of a business
- Develops software and web sites for different companies including KDSTV.com that was a site built with JSVP

Part-Time Assistant Electrician: Sobczak Electric, LLC. (1999 - Present)

- Assisted in electrical, HVAC, and telecommunication jobs for residential, commercial, and industrial applications
- Overseen projects such as interfacing Benshaw variable frequency drivers to PLC's

Computer Technician: Shenken Law Center - New Castle, PA (2003 - Present)

- Install, configured, and troubleshoot hardware & software on various systems.
- Additional tasks included using domain name management and MS Access applications.
- Travel to satellite offices out of state to setup Virtual Private Networks

Videographer / Non-Linear Editor : JSVP – New Castle, PA (2001 - Present)

- Work is done on video projects clients including WTAE, WPXI, WFMJ, WYTV and New Castle News.
- Used A/V equipment including non-linear editing PCs with Adobe Premiere, Adobe Encore, and Adobe Photoshop

Web Developer : History Department and Physics Department - SRU (2005 - Present)

- Worked with faculty to revamped entire site while conforming to the university's template to keep uniformity

Web Developer: Mohawk Area High School – Bessemer, PA (2002 - 2006)

- Developed web site employing HTML, DWTs, VBScript/ASP, SQL, Access Databases, and MD5 Encryption
- This position gave me great an opportunity to work with students and faculty

COMPUTER LITERACY

Programming : Java, C/C++, C#, Visual Basic, Assembly, Maple, Mathematica
Web Development : ASP/VBScript, HTML, SQL
Database Systems : MS Access
Additional Software : Office 2003, Microsoft Visual Studio, C++ Builder