

Joseph Colin Johnson
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Current Address

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Education

University of Iowa, Iowa City, Iowa Fall 2003- Present

Major: **Mechanical Engineering**

Minor: Computer Science

Minor: Mathematics

Des Moines Area Community College, West Des Moines, Iowa 2002-2003

Emphasis: Microcomputer Hardware

Microcomputer Operating Systems

Cisco Certified Network Administrator (CCNA) Semester 1

GPA: **3.7/4.0**

High School Diploma, Valley High School, West Des Moines, Iowa June 2002

Class Rank: 118/542

GPA **3.7/4.0**

Work History

SQL Designer/ Data Entry, Innovative Racing Solutions

Waukee, IA Spring 2003 – Present

- Created SQL Databases to track customers in North America
- Maintained and repaired networks and computers
- Installed fiber-optics and telecommunications equipment
- Setup and maintained 15 workstations and servers at Boone Super Nationals
- Travel to visit clients with specific needs and provide individual solutions

Shift Manager, Computer Renaissance

West Des Moines, IA Fall 1999 - Summer 2003

- Worked with customers to design solutions for personal needs
- Installed components and repaired computers
- Managed computerized inventory
- Designed network solutions for customers and companies
- Managed department for purchasing secondhand equipment

Computer Support and Engineering Assistant, IHR-Hydroscience and Engineering

Iowa City, IA Fall 2003 - Present

- Overseeing multiple employees and projects
- Assist engineering faculty, professors, and graduate students with computer support
- Knowledge of specialized engineering applications
- Management of a networked domain with approximately 200 workstations
- Maintenance of IHR's Sun Microsystems 512 processor Linux cluster
 - Largest cluster of computing power at the University of Iowa
 - Used for applications of computational fluid dynamics
- Interaction with non-native English speakers from a variety of countries
- Technical communication with companies to provide internal engineering based support and solutions
- Working in an environment of research and discovery for one of the top three institutions in the world for its field of research.

Sole Proprietor, Mobiletek Inc.

www.mobiletekinc.com

Iowa City, Iowa Fall 2003- Present

- Engineering consulting
- Product design
- CAD
- Finite Element Analysis
- Computer support
- Networking & Design
- Thermodynamics
- Website Development
- Material engineering

Leadership and Activities

- "System on Wheels" Des Moines Register: TechWorld - Fall 2001
 - Front page article about mobile computing car-installs
- ASME – Membership and involvement in the "American Society of Mechanical Engineers"
- E/W- Membership and involvement in "Engineers for a Sustainable World"
- Central Iowa Bio-Diesel Enthusiasts
- Personal website - www.themobiletek.com

Interests and Current Projects

- International shipping logistics
- Applications of computational fluid mechanics
- Validation of wind tunnel and computational experiments
- Engineering and validation of homebuilt jet turbine running bio-diesel
- Finite element analysis of mechanical systems and components
- Industrial machining, systems, and design

Computer proficiencies

- Professional Engineer
- Solidworks
- FlowLab
- Ansys
- CATIA
- Interactive Thermodynamics
- MatLab
- Mathematica
- C programming languages
- C++ programming languages
- Visual Basic programming languages
- Computer and network hardware
- Networking design and management
- Network domains
- Q & X server
- All Microsoft Operating systems

