

# Keith Huster

## ASP.NET Full-Stack Developer / Software Engineering Specialist

### // PROFILE

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A well-respected ASP.NET Full-Stack Developer / Software Engineering Specialist capable of taking ideas from concept to production. Keith has over 13 years of experience developing both pure software systems as well as embedded electro-mechanical systems for the education and medical device markets.

Keith currently holds 13 US patents for various medical devices and software systems.

Keith is also a volunteer firefighter who enjoys cycling, snow skiing, and camping.



### // CONTACT

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#### MOBILE

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Sunman, IN 47041



### // SOCIAL

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#### LINKEDIN

linkedin.com/in/husterk

### // EXPERIENCE

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#### CONFLUENCE

2015 - PRESENT

##### Senior Software Engineer (Full-Time Remote Position)

- Responsible for new feature development on the Budgeting / Expense Management product.
- Developed full-stack software solutions to complex business problems leveraging advanced technologies such as Event Sourcing, CQRS, and Functional Programming.
- Quickly recognized as a key team member and successfully led the development of a major feature within the Budgeting product (including task development, coordination, and implementation).
- Responsible for technical documentation development on the Confluence wiki.

#### CURRICULUM LOFT

2014 - 2015

##### ASP.NET Full-Stack Developer (Full-Time Remote Position)

- Responsible for new product / feature development utilizing technologies such as ASP.NET MVC, ASP.NET Web API, Bootstrap, JQuery, KnockoutJS, Typescript, HTML5/JS/CSS3, SQL, MongoDB, StructureMap, etc...
- Responsible for field product support including triaging / correcting issues as they are reported by customers and / or the dedicated support team.
- Responsible for production deployments of the ASP.NET products to over 1000 schools via a Continuous Integration server (TeamCity).
- Responsible for technical documentation development.

#### HILL-ROM

2001 - 2014

##### Software Engineering Specialist (New Product Development)

- Worked with multiple disciplines to improve our engineering toolset including task tracking, source code management, and requirements management tools.
- Architected and developed a Microsoft .NET service capable of aggregating and normalizing data received from up to 1000 connected hospital beds.
- Designed, setup, configured, and managed a development network consisting of multiple physical and virtual servers, wired and wireless technologies, and multiple embedded medical devices.
- Developed a "Connectivity Sales Toolkit" to allow the sales force to demonstrate and discuss the concept of the "connected hospital bed".
- Developed UL60601-1 / UL60950 compliant hardware and embedded software for an Ethernet gateway device as well as an embedded Wi-Fi gateway device for hospital beds.

#### CINCINNATI INC.

1998 - 2000

##### Laser Production Engineer (Intern)

- Development a documentation standard and repository solution.

## // SKILLS

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### MICROSOFT ASP.NET DEVELOPMENT

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- Strong C# development skills including experience with the various .NET frameworks (up to v4.5.1).
- Implementing Inversion of Control / Dependency Injection patterns via StructureMap.
- Implementing multi-threaded / highly concurrent applications via the async / await pattern.
- Developing ASP.NET MVC and ASP.NET Web API applications for production environments.
- Developing Single-Page Applications (SPAs) using a variety of technologies including Bootstrap, JQuery, KnockoutJS, AngularJS, HTML5 / Javascript / CSS3, Typescript, etc...).
- Implementing both traditional SQL and modern No-SQL (MongoDB) data storage technologies.
- Implementing Unit / Integration tests using mocking frameworks such as Moq and TypeMock.

### MICROSOFT .NET APPLICATION DEVELOPMENT

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- Strong C# development skills including experience with the various .NET frameworks (up to v4.5.1).
- Implementing WinForms graphical user interfaces and backing applications.
- Implementing Windows Services for integration into distributed architectures (service-oriented architectures).
- Implementing multi-threaded applications via the Concurrency & Coordination Runtime (CCR).
- Connecting .NET applications to embedded devices via TCP/IP and / or legacy serial protocols.

### EMBEDDED SYSTEMS DEVELOPMENT

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- Strong embedded hardware / firmware (Embedded C) design and development skills.
- Implementing bare-metal firmware for control of low-end microcontrollers.
- Implementing firmware within the context of a real-time operating system (RTOS).
- Connecting embedded devices to backend applications via TCP/IP and / or legacy serial protocols.

### MEDICAL DEVICE DEVELOPMENT

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- Developing production-quality medical devices following the FDA regulations.
- Documenting the product development process (requirements, design, and testing documentation).
- Providing field support for legacy devices.

### REQUIREMENTS DEVELOPMENT

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- Strong knowledge in requirements development under both waterfall and Agile development strategies.
- Experience with FDA / UL regulated design controls, hybrid requirements models, etc...

### SERVER / NETWORK MANAGEMENT

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- Deploying both physical and virtual servers within a virtualized environment (VMware ESXi).
- Installing and configuring hypervisors (VMware ESXi) and the associated clients (vSphere).
- Deploying layer-2 networking devices including switches (Cisco) and software routers (pfSense).
- Deploying enterprise-grade Wi-Fi networks using Cisco WLAN controllers and lightweight access points.
- Implementing VLAN segmenting for subnet isolation.

### GENERAL SKILLS

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- Strong PC usage and management skills (network configuration, virus removal, etc...).
- Strong Microsoft Office skills (Word, Excel, Powerpoint).
- Quick to learn new technologies / techniques and apply them to the task at hand.

## // EDUCATION

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### M.S. SOFTWARE ENGINEERING

2007 - 2010

Drexel University  
Philadelphia, PA  
GPA: 3.77 (4.0 Scale)

### B.S. ELECTRICAL ENGINEERING

1998 - 2002

Rose-Hulman Institute  
of Technology  
GPA: 3.19 (4.0 Scale)

### FIREFIGHTER I / II

2003 - 2004

Sunman Rural Fire  
Department

## // ACCOMPLISHMENTS

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### PROFESSIONAL

- Inventor of 13 US patents for Hill-Rom (more in process).
- Awarded Hill-Rom's "Patent of the Year" twice (runner up once).
- Awarded Hill-Rom's "President's Innovation Award".
- UL60601-1 Certification training from UL University.
- Founded *VFD Software Solutions* small business.
- Webmaster for *The Hooker Deer Drag Co., LLC*.
- IT Admin / Webmaster for the *Sunman Rural Fire Department*.
- Started home-based consulting engineering company.



### ACADEMIC

- M.S. Software Engineering (Drexel University).
- B.S. Electrical Engineering (Rose-Hulman Institute of Technology).
- Completed Fundamentals of Engineering (FE) exam.
- Awarded senior project funding by the National Collegiate Inventors and Innovators Alliance and the Lemelson Foundation.



### PERSONAL

- Started distance cycling and Crossfit to improve overall health.
- Volunteer firefighter since 2004 (firefighter of the year in 2007).
- Promoted to Lieutenant Firefighter in 2014.

## // AFFILIATIONS

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### SUNMAN RURAL FIRE DEPT. Lieutenant, Firefighter I / II

Volunteer firefighter with HazMat Awareness and CPR / First Aid certifications.

### LAMBDA CHI ALPHA Brother (Rose-Hulman)

Active member of the fraternity and participated in numerous philanthropic activities.

### UPSILON PI EPSILON Member

Honor society for the computing and information sciences disciplines at Drexel University.

## // REFERENCES

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### MIKE HILLIGOSS

Dir. Software Development,  
Curriculum Loft

M [Available Upon Request]  
E [Available Upon Request]

#### Business Address

429 N. Pennsylvania St.  
Indianapolis, IN 46204

### DAN TALLENT

Core Team Leader, Hill-Rom

M [Available Upon Request]  
E [Available Upon Request]

#### Business Address

1069 State Route 46 E  
Batesville, IN 47006

### STEPHEN FLINT

VP of R&D, Medela, Inc.

M [Available Upon Request]  
E [Available Upon Request]

#### Business Address

1101 Corporate Drive  
McHenry, IL 60050