

# JOSHUA W. DAVIDSON

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<https://jwaynedavidson.com>  
<https://github.com/joshuadavidson>

## SUMMARY

Detail-oriented full stack JavaScript developer who has found his calling in code. Effective team member who realizes that a great team starts with a foundation of clear communication that is built on listening first and speaking second. Experienced in developing critical safety software applications in process automation as a chemical engineer. Developer who enjoys seeing the big picture and then diving deep into the details of an elegant and efficient solution. Seeking a technically challenging web development career on a first-class team that values integrity and a strong work ethic.

## EDUCATION

B.S. in Chemical Engineering, Worcester Polytechnic Institute  
Graduated with High Distinction, GPA: 3.97/4.00

Aug. 2007 – Dec. 2010

## EXPERIENCE

- JavaScript: React, AngularJS, Node.js, Express.js, MongoDB with Mongoose.js, Passport.js, jQuery
- Development Environment: Git, GitHub, AWS S3, AWS Route 53, AWS CloudFront, Webpack 1/2, Atom IDE, Babel, Heroku

For examples of my work please visit: <https://jwaynedavidson.com>

## RECOMMENDATION

*"Josh is extremely intelligent, highly motivated, and very efficient. His ability to recognize what is needed and then quickly develop and execute a work plan is better than almost anyone with whom I've come in contact. His work ethic and work output is exceptional. He is a very quick study on anything he decides to do. He pays close attention to detail and doesn't hesitate to ask questions about things he hasn't experienced. He is young and enthusiastic but still wise beyond his years. He is mild mannered and a joy to work with. He developed an interest in Process Automation and Control on the mega project we were both working on and he gained a tremendous amount of knowledge and experience in a short time. I consider Josh a prime candidate for anyone interested in hiring a highly motivated self-starter. He is a great problem solver and I would relish the opportunity to give a verbal recommendation to any prospective employer. This guy is great!"*

— Tom Vandewater, Hemlock Semiconductor (viewable on LinkedIn)

## CURRENT AND PREVIOUS POSITIONS

### **Free Code Camp Meetup Lead**

January 2017 – Present

Free Code Camp – Houston, TX

- Plan, organize and direct the biweekly West Houston Meetup for Free Code Camp on a volunteer basis.
- Assist peers in troubleshooting code and employing best practices in their projects.

### **Founder and Co-owner**

July 2014 – Present

V3 IT Solutions – Houston, TX

- Founder and Co-owner of a small IT services and consulting company for residential and small business customers.
- Perform all business operations including licensing, marketing, accounting, and invoicing, as well as on site IT troubleshooting and small business WordPress site development and configuration.

### **Control System Engineer**

March 2013 – March 2016

ABB Inc. – Houston, TX

- Designed and developed the software and hardware configurations for large safety systems in oil and gas installations around the globe.
- Assisted in the development and testing of custom code libraries containing objects and graphics to be utilized by other developers.
- Generated software specification documents based on initial customer design input and ensured that application design changes were correctly documented, implemented and tested.
- Reviewed and improved application logic developed by outsourced developer teams in India.
- Conducted end-to-end testing of all applications with customers while troubleshooting and fixing any bugs found during testing.
- Developed office procedures for the design, documentation, implementation, and testing of functional safety code under IEC-61508 and IEC-61511 standards.

### **Chlorosilane Start Up Engineer**

February 2011 – March 2013

Hemlock Semiconductor – Midland, MI and Clarksville, TN

- Directed the development of software specifications for the creation of over 25 applications that would operate and protect a newly constructed \$1.2B chemical plant.
- Wrote the standards for the development of project libraries, graphics, and testing procedures for the aforementioned applications to be utilized by developer teams.
- Performed end-to-end testing of code delivered by 3rd party contractors.
- Created the necessary workflows and training for chemical plant operators to safely and effectively interface with the control system applications.
- Interfaced with IT teams to ensure that 10,000 points of unique chemical plant data produced every few seconds was stored for future analysis and disaster timeline re-creation.

### **Pulverizer Engineering Intern**

May – July 2009

Babcock Power Inc. – Worcester, MA

- Taught myself Visual Basic for Applications to develop an engineering design tool in Excel over the course of three months.
- Converted a pen and paper process for the design of coal pulverizers into an entirely automated program that could rapidly iterate over many designs.
- Wrote associated user manuals and trained the engineering department on the use of the design program.