

# Edward P. Sivick

Herndon, VA 20171

Phone: (703) 926-6083 | Email: <mailto:ed@sivick.net>

Linked In: [Ed Sivick Linked In](#) | GitHub: [Ed Sivick GitHub](#) | Portfolio: [Ed Sivick Portfolio](#)

## SUMMARY

Full Stack Web Developer with extensive experience in mechanical design engineering. As a Mechanical Engineer, I won several awards including the annual President's Excellence Award in the Innovation and Technology category at Northrop Grumman. I worked on a broad range of contracts in both the commercial and defense sectors. I received endorsements from my managers for completing "extremely high quality" work, and consistency to demonstrate excellent "hands-on skills" with a "cooperative, team-oriented attitude".

## TECHNICAL SKILLS

**Languages:** HTML5, CSS, Bootstrap, JavaScript, jQuery, AJAX, Node.js, Web APIs, MySQL, Handlebars, Sequelize, MongoDB, Python

**Applications:** Git, Heroku, Photoshop, SolidWorks, CircuitWorks, AutoCAD, 3D modeling, Microsoft Office

## PROJECTS

**Title:** Holiday Wish List | GitHub Link: [Holiday Wish List GitHub](#) | App. Link: [Holiday Wish List Link](#)

**Project Summary:** The 'Holiday Wish List' is an app that enables each participant to add gifts to their list, and view or select gifts to give from the lists of other participants. The app is created using Node and Express web server. The wish lists are created/modified using MySQL database with a Sequelize ORM. The HTML layouts utilize Handlebars templates to display the data which is added and retrieved using Express GET and POST route methods.

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**Title:** Worldwide Travel Assistant (WTA) | GitHub Link: [WTA GitHub](#) | App. Link: [WTA Link](#)

**Project Summary:** The travel input criteria including: visiting city, start travel date, and end travel date will initialize a server-side API from [Calendarific](#), providing holiday information as well as useful facts about the destination. Information pertaining to the destination country is supplied to the app by means of an API from [Rest Countries](#). The input data is used to initiate another server-side API from [OpenWeather](#) to provide the weather information. The date information is displayed using [Moment.js](#).

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**Title:** Timed Code Quiz | GitHub Link: [Timed Code Quiz GitHub](#) | App. Link: [Timed Code Quiz Link](#)

**Project Summary:** This app introduces a timed code quiz with multiple-choice questions. The app runs in the browser and features dynamically updated HTML and CSS powered by JavaScript code. It is responsive and adapts to multiple screen sizes. When the user clicks a start button, a timer will start and the user is presented with a question. When the question is answered, another question is presented. If the question is answered incorrectly, additional time is subtracted from the timer. The game is over when all questions are answered or the timer reaches 0. The user can then save their initials and quiz score.

## EXPERIENCE

### **Web Dev Contractor / K12 Instruct**

July 2015 – Present

- Developed and revised content files for website affiliated with Archdiocese of Baltimore using HTML, CSS, and JavaScript languages
- Collaborated with team members to ensure successful testing and implementation in a timely manner
- Maintained the database of website related files to safeguard the revision control of content
- Assisted students through the instruct /monitor of high school curriculum from K12 Int. Academy

### **Senior Mechanical Design Engineer Digital Signal Corp., Chantilly, VA**

May 2013 – July 2015

- Mechanical Lead that designed components and mechanisms for several facial and biometric systems, including various electronic enclosure sub-assemblies using SolidWorks / CircuitWorks
- Improved existing system designs to enhance aesthetics, and comply with non-destructive tests
- Assisted Assembly and Quality Techs. to promptly solve component design issues on the Mfr. floor
- Created rendered images of final products for Sales / Marketing teams using PhotoView 360
- Worked with Field Service Techs. assuring systems were properly installed to custom design mounts

### **Self-Employed, Herndon, VA**

Jan 2012 – May 2013

#### **Mechanical Design & Fabrication of Commercial Products**

- Acquired funding to design, fabricate, and field test four consumer products for Production
- Pursued licensing and royalty agreements with several product manufacturers

### **Mechanical Engineer IV Northrop Grumman IS, Chantilly, VA**

May 2005 – Jan 2012

Clearance: Top Secret / SCI, Department of Defense

- Designed specialized mechanical components for custom Electronic Systems that were utilized as part of payload assemblies in various aircraft and ground based systems
- Utilized specific design tools such as AutoCad Mechanical Desktop, Inventor, SolidWorks, and Simulation to analyze the integrity of fabricated parts
- Generated Technical Data Packages for systems consisting of Fabrication Drawings, Cable Assemblies, Parts Lists, and Wire Diagrams based on ASME standards and contract requirements
- Created project material cost and updated schedule reports to assure tasks were completed within budget and on time
- Consulted with vendors to assure that COTS or fabricated parts met the system design requirements
- Received the IT President's Excellence Award in the Innovation and Technology category, and two Special Achievement Awards for exceptional performance, teamwork, and contribution on projects

## EDUCATION

The George Washington University: Full Stack Web Developer Program: A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Firebase, Node.js, MySQL, MongoDB, Express, Handelbars.js & ReactJS

Udacity: Introduction to Programming Nanodegree - Languages: HTML, CSS, Python, JavaScript

University of Pittsburgh: Bachelor of Science, Mechanical Engineering