

# GUSTAVO E. OCASIO

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## TECHNICAL SKILLS

- Proficient: JavaScript, MongoDB, Mongoose, Express, AngularJS, Node.js, HTML, CSS, Git, Github, 3-D CAD (Siemens NX), MATLAB, ENOVIA, Minitab, Design of Experiments, Tolerance Analysis, Statistical Analysis
- Knowledgeable: jQuery, Heroku, Mocha, Chai, Bootstrap, Bluebird, AWS S3, Webshot, Interact.js
- Some experience: SQL, WebSockets, CasperJS

## PROJECTS

**Fireframe**, [www.firefra.me](http://www.firefra.me) [github.com/gerickson808/fireframe](https://github.com/gerickson808/fireframe)

Apr 2016

Web-based wireframing tool with real-time collaboration and version control.

- Implemented screen capture, and image uploading to AWS S3.
- Deployed application to Heroku.
- Created the user dashboard page, and worked on the overall website front and back-end functionality.
- Used the MEAN stack, Bootstrap, Interact.js, AWS S3, and Firebase.

**Lazy Scroller**, [github.com/gocasiot/stackathon](https://github.com/gocasiot/stackathon)

Mar 2016

Web application that uses facial recognition to scroll up and down a web page by just tilting your head.

- Used the clmtrackr javascript library to detect facial features and obtain their coordinates.

**Interview Stack**, [github.com/sp6pe/stackstore](https://github.com/sp6pe/stackstore)

Mar 2016

E-commerce website that sells coding mockup interviews.

- Used the MEAN stack and Bootstrap.

## EXPERIENCE

**Lexmark International, Inc. – Lexington, KY**

*Mechanical Hardware Engineer II, Printer Supplies Development*

June 2011-Dec 2015

- Owned the design, development, and validation of the auger system in the printer's cartridge.
- Supervised the assembly of 3800+ cartridges both in the US and China to ensure they were built properly.
- Improved and reduced the cost of a test fixture to be used by multiple departments by 20%.

*Mechanical Hardware Engineer I, Technical Rotation Program*

**Rotation 3: Inkjet Product and Process Quality Assurance (PPQA)**

Oct 2010-May 2011

- Designed test plans that would effectively identify potential inkjet printer issues.

**Rotation 2: PSSD Mid-Range Color Product Engineering**

Feb 2010-Oct 2010

- Identified, analyzed, tested, and implemented solutions to solve product issues.

**Rotation 1: PSSD Motion Control**

Mar 2009-Feb 2010

- Determined the plant transfer function of an electro-photographic drive system fixture, and worked on the design and implementation of a controller to attenuate disturbances acting on this system.
- Completed three brush DC motor life tests, and initiated the use of X-rays as a non-destructive way to measure motor brush length.

## EDUCATION

**Fullstack Academy - New York, NY** Software Engineering Immersive Program

Apr 2016

**University of Michigan - Ann Arbor, MI** M.S.E. Mechanical Engineering

Dec 2008

**University of Puerto Rico - Mayagüez, PR** B.S. Mechanical Engineering

Dec 2006

## LEADERSHIP

**Society of Hispanic Professional Engineers (SHPE), Kentucky Bluegrass Chapter**

2009-2015

- President – Awards Received: 2012 National, and 2012 Region 6 Professional Chapter of the Year
- Other chapter positions include: VP of Professional Development, Secretary

## SUMMARY

Fullstack software developer with extensive hardware engineering knowledge. I became passionate about programming while working as an engineer at Lexmark International. There I was given the opportunity to write programs in MATLAB to process and analyze large sets of experimental data.