

# Kevin Ferretti

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## Objective

To apply my knowledge of engineering, programming, and team-oriented design in innovative ways that challenge myself.

## Education

BS in Biomedical Engineering; North Carolina State University, Raleigh, NC  
Concentration in Bioinstrumentation; Graduated May, 2015

## Related Courses

Human Factors Engineering & Quality Management Systems; Computer Methods in Biomedical Engineering; Microcontrollers;

## Skills

- SolidWorks; AutoCAD; Inventor
- C; MATLAB; Mathematica; Assembly
- HTML; CSS; JavaScript
- Lean Six Sigma Green Belt
- Needs based design; Risk Analysis; Rapid Prototyping

## Design Project Experience

### *NCSU Senior Design Project*

My Senior Design team worked with industry and academic mentors to create a phone-based virtual reality concussion diagnostic device that address the need for rapid on-the-spot concussion diagnosis. Throughout this project we kept an extensive Design History File, used a Gantt chart for year-long project scheduling, maintained engineering notebooks, and made plans for verification and validation. The project involved design review presentations after each of the five design phases where we learned how to effectively and concisely present important information while keeping stakeholder wants and needs in mind. Upon completion of this course we submitted an invention disclosure for our device through the university.

## Related Professional Experience

### Contract Engineer, March 2016 – August 2016; *Patheon, High Point, NC*

- Designed and prototyped cooling devices using Autocad and Inventor
- Tested different designs on production lines during test runs
- Performed Total Productive Maintenance on multiple systems

### Validation Engineering Intern, June 2012 – August 2012; *Patheon, High Point, NC*

- Went through the process of developing new gel capsule label printing mats using AutoCAD
- Wrote troubleshooting documents for in-line gel capsule label printing

### Mechanical Engineering Intern, June 2011 – August 2011; *HAECO Americas, Greensboro, NC*

- Used Solidworks to dimension various assemblies
- Wrote instructional documents for replacing outdated parts
- Learned how to function effectively as a professional and take initiative

## Honors and Organizations

- Biomedical Engineering Society: Student Chapter
- Eagle Scout
- Sigma Phi Epsilon Balanced Man Scholarship