

## PAPER FEDERAL RESUME

Scott Hampstead  
8125 48<sup>th</sup> St. Apt. # 120  
College Park, MD 20740  
Phone: 410-375-4434  
Email: [scottmHampstead@hotmail.com](mailto:scottmHampstead@hotmail.com)

SSN: 222-22-2222  
Citizenship: United States  
Veteran's Preference: N/A  
Federal Government: N/A  
Job Number: GEC030032  
Position: Mechanical Engineer (GS-0810)  
Grade: GS-05/07

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**Objective: To obtain a position as a MECHANICAL ENGINEER**

### Summary of Skills:

#### PRODUCT DESIGN

Prototype construction and design  
Research and analysis  
Test design, management and report design

#### TEAM WORK

Planning projects; delegating tasks; communicating project plans  
Coordinating schedules with team members and testing facilities  
Presenting results and findings in PowerPoint presentations  
Writing reports on design and research process

#### MATERIALS SELECTION

Materials experience: wood, plastic, metal  
Stress and failure modeling  
CNC machines, milling machines, power tools

### Computer Skills:

Pro-Engineer, Pro-Mechanica, Matlab  
Word, Adobe-Acrobat, Excel, PowerPoint

### Education:

**B.S. in Mechanical Engineering**  
**Class of 20XX**  
**University of Maryland**, College Park, MD  
Overall GPA: 3.65/4.0    Engineering GPA: 3.75/4.0

### **Honors and Activities:**

National Merit Scholar  
A.P. Scholar with Honors  
Maryland Club Lacrosse (19XX-20XX)

Maryland Distinguished Scholar  
Dean's List (Five times)  
Maryland Intramural Soccer (20XX)

### **Related Coursework:**

Calculus, physics, chemistry, differential equations, statics, dynamics, thermodynamics, introduction to Matlab, fluid mechanics, electronics and instrumentation, strength of materials, engineering materials and manufacturing processes, statistical methods of product development, transfer processes, vibrations optimization, product engineering and manufacturing, automotive design, manufacturing automation, technical writing, human resource management, supply chain management

Final Courses - Summer, 20XX:

Computer automated drafting (Pro-Engineer)

Professor / Reference: Dr. Riad Saraiji; Phone: 703-448-2802

Control Systems Optimization

Professor / Reference: Dr. Caleb Belai; Email: [calb@Glue.umd.edu](mailto:calb@Glue.umd.edu)

### **Team Semester Projects:**

**Design of an Automatic Spice Rack.** Member of team writing a 114-page single-space report and 40-page drawing package for the original design of an automated spice rack for home consumption and use. Used competitive benchmarking, patent searches, surveying, product design specification, functional requirements, etc. to design an automatically dispensing spice rack. Built and tested prototype of spice rack design. Modeled parts in Pro-Engineer/Pro-Mechanica to collect stress and failure data. Prepared and presented PowerPoint slides to students and faculty. Wrote and edited sections of a comprehensive final report on all aspects of the design process. (Senior Project 20XX)

**RESULT:** Received an A grade on the project, which was successfully demonstrated by the prototype.

Project Advisor / Professor: Dr. Henry Higgins, Mechanical Engineering  
Phone: 443-444-3333

**Design of Hybrid SUV for FutureTruck competition.** Team Leader for testing of the performance of the electric motor. Analyzed complex schematics to determine connector specifications and location. Negotiated the donation of connectors for the high-voltage system. Researched torque curves for the stock engine and the replacement engine. Made purchase orders for high-voltage system components. (20XX-20XX)

**RESULT:** Gained valuable experience in assembling components, test

management, and fabrication, including milling and tapping. Also gained experience in communicating with test shop managers to coordinate testing the electronic motor and completing purchase orders.

Project Advisor / Professor: Dr. Phil McHenry, Mechanical Engineering  
Phone: 301-301-3001

**Redesign of the DeWalt tradesman drill** using the nine-step product development process. Team Leader directing the testing and building of a prototype cordless/corded drill. Compared results to necessary specifications to determine effectiveness of the design. Gave PowerPoint presentations on project results. Utilized analytical tools such as the House of Quality, Weighted Decision Matrix, Morphological Chart, and Functional Decomposition to redesign drill. (20XX)

**RESULT:** Gained valuable experience in a complex product development process, understanding components from initial concept generation to working prototype construction and cost analysis.

**Design of Matlab code to model airborne concentrations of dust in turbulent winds.** Modeled winds with force vectors. Displayed results in multiple plots corresponding to different wind conditions. Experimented with different mesh densities to determine the degree of computing power necessary for accurate results. (20XX)

**RESULT:** Gained experience in writing complex computer programming to support real world situational modeling.

**Other projects have included:**

Creation of CAD drawings of bike stem	20XX
Statistical analysis of campus traffic flow	20XX
Evaluation of scale wind tunnel testing of a high-rise building	20XX
Design of portable water pump	20XX
Analysis of stress, bending and failure in a lug wrench	20XX

**Diploma, Catonsville High School, Catonsville, MD**

**Class of 19XX**

**Work Experience:**

Sales Clerk	July 19XX – August 19XX
Village Antiques, 787 Oella Ave., Oella, MD 21228	\$10/hour
Supervisor: John Jones, 410-444-4444	25 Hours/Week
Duties: Responsible for customer service, sales, daily operation of store.	
Accomplishments: Learned customer relations, small business practices, and value of antiques/collectables.	