

SEAN M. PACHECO

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OBJECTIVE

To take on a Mechanical Engineering assignment.

Career Experience

NASA Ames Research Center, Jacobs Technology Engineering Intern

2010-Present

- Work with Lead Facility Engineer to provide maintenance services to NASA Ames supersonic and transonic wind tunnels.
- Serve as a Project Manager for a multitude of safety upgrade and facility maintenance engineering projects.
- Direct contractors to carry out work on various engineering projects.
- Gained extensive experience in the safety culture at Ames through the completion and development of safety programs.
- Developed and implemented an inventory management database to improve departmental efficiency.

Stanford Microfluidics Laboratory, Stanford University Research Team Member

Summer 2012

- Performed electrokinetic injection to measure the mobility of fluorescently labeled myoglobin.
- Operated an epifluorescent microscope and micromax CCD camera to record data.
- Created a research poster and paper to document findings.

ENGINEERING PROJECTS

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|---|-------------|
| • Industrial Air Compressor Heavy Valve Replacement Tool, NASA Ames | Present |
| • Wind Tunnel Model Support Pitch Wheel Safety Upgrade, NASA Ames | Winter 2012 |
| • Cast Aluminum Golf Putter, Stanford University | Winter 2012 |
| • Wind Tunnel Compressor Blade Stress Monitoring System, NASA Ames | Winter 2011 |
| • Hydraulic Oil Pump Replacement, NASA Ames | Summer 2011 |

Education

B.S. Degree in Mechanical Engineering Stanford University
Expected Graduation December 2013

Skills

Systems: SolidWorks, MATLAB, Microsoft, Macintosh Family

Machining: Laser Cutter, Mill, Lathe, Casting

Programming Language: Java

Languages: English, native speaker; Spanish, conversational

Certification

Registered California EIT

ACTIVITIES

San Jose Tech Challenge Mentor – Coach middle school students competing in annual design challenge.
Hermanos de Stanford - Community service organization focused on academic excellence and cultural awareness
Fundraise for annual scholarship for underprivileged high school seniors.

HOBBIES

Alto Saxophone, Soccer, Golf