

John Fuzell

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Objective

An architect position with emphasis in mechanism design and structure.

Education

B.Eng. in Mechanical Engineering, UCLA, December 2009

Concentration: Mechatronics

Dedicated 22-25 hours per week on Team Tech Projects

Technical Projects

Senior Project – Animation of Estonia Blancas clockwork mechanism for BLM

? Measured, documented, and drew components of lighthouse mechanism

? Assembled components into a working animation in SolidWorks

? Animation to be used as an educational resource for tours at Estonia Blancas Light Station

? Utilized Microsoft PowerPoint to develop interactive presentation for visitors at Light

Station

? Provided technical documentation for each component of mechanism

Team Tech (Society of Black Engineers)

? Designed, manufactured, and implemented a robotic inspection tool for Northrop Grumman on 2006 project

? Earned 2nd place at Nationals (2006)

? Performed design analysis and manufactured components for 2007 Weld-Point Inspection Device project

? Currently being utilized at Walt Disney Imagineering in Anaheim, California

? Earned 1st place at Nationals (2007)

? Modified and designed mechanical shaver for Stryker Endoscopy on 2008 project

? Designed mechanical shaving tool in SolidWorks to help decrease clogging and increase efficiency

? Utilized Rapid-Prototyping system to produce a working 3-D prototype based off SolidWorks drawings

? Earned 2nd place at Nationals (2008)

? Utilized SolidWorks to help design and develop external pod casing for Lockheed Martin for 2009 project

? Used Microsoft Excel to organize parts, select vendors and perform cost analysis
Human Powered Vehicle (American Society of Mechanical Engineers)

? Prepared molds and constructed composite fairing in multi-disciplinary team for 2006 competition

? Earned 1st place in design (2006)

Mary Tudor High School Champion Robot 2001-2002

? Designed, built, and tested a remote-operated robotic arm for FIRST Robotics Competition

? Earned 2nd place overall and 1st place in design at Austin, Texas Regional Competition

Mary Tudor High School Champion Robot 2000-2001

? Constructed and tested drive train assembly, wired motors, relays, speed controllers and controller board together

? Earned 2nd place rookie

Experience

Tutor, Santa Rosa Junior College (SRJC) – MESA and Tutorial Center (2004-2005)

? Tutored mathematics, psychology, physics, engineering, and English

? Academic Excellence Workshop (AEW) facilitator for introductory physics class

? SRJC – Lab Assistant for “College for Kids” program (2004-2005)

- Worked with 4th-5th grade students on mechanized autonomous LEGO Robots

- Helped students program and construct a robot to perform a series of tasks

Technical Skills

SolidWorks, Cosmos FEA analysis software from SolidWorks, Matlab, Simulink, Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Programming and debugging with the Motorola 68HC12

Microcontroller, MVS909 and OPTIMAS 6.2 vision systems, experience with design and manufacturing processes including HAAS CNC lathe and mill operations

Leadership / Involvement

? Society of Black Engineers (SBE)

? American Society of Mechanical Engineers (ASME)

? MESA Engineering Program, Cal Poly

? MESA/Agilent Technologies Annual LEGO Robotics Competition – Santa Rosa Junior College

? CPSalsa

? Interests: traveling, cooking/exotic foods, piano/guitar, martial arts, Italy, surfing, frisbee, volleyball, movies, camping, horseback riding, improv comedy, ballroom dancing