

Michael Hagenow

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EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Mechanical Engineering expected May 2014

GPA 3.75, Dean's List, Mitchell Scholar

SKILLS

Programming Languages: C++, Visual Basic, Objective C

Software: Solidworks, AutoCAD, Labview, Microsoft Office, Minitab, Matlab, MathCAD, AdvantEdge

RELEVANT COURSEWORK AND PROJECT

Instruments/Experiments, System Dynamics and Controls, Heat Transfer, Machine Design, Dynamics and Vibrations, Materials, Fluid Mechanics, Thermodynamics, Data Structures, Modern Quality Control, Manufacturing Processes

PID Controlled Thermal Redesign of Espresso Maker Heating Chamber

- Senior design project to retrofit current espresso maker to achieve better temperature regulation

EXPERIENCE

United Electronic Industries, Walpole, MA

Intern - Marketing, Jan. 2014– Present

- Evaluate current customer base and develop formulas for further client expansion
- Collaborate with Sales office to identify product applications and networks

Tufts University EECS Department, Medford, MA

Teaching Assistant for C Programming, Sept. 2013 – Present

- Teach computer laboratories and grade homework for beginning programming students
- Provide individual assistance to students during open office hours

General Electric Aviation, Lynn, MA

Intern – Military Systems/Project, May 2013 – Aug. 2013

- Created Access Databases to improve Hardware Returns System
- Produced and presented several technical documents for CT7-8 Helicopter Engine Line
- Provided correspondence, feedback, and solutions for field engine complications

Tufts Center for Engineering Education and Outreach, Medford, MA

PETE Intern, Sept. 2012 – May. 2013

- Designed engineering curriculum for middle school classrooms
- Created and revised documentation for classroom instructors

University of Hawaii, Honolulu, HI

Research Assistant, Jun. 2012 – Jul. 2012

- Evaluated and experimented with micro robotic manipulation techniques to expose potential flaws
- Designed and implemented a touch-based controller for laboratory to improve upon previous capabilities
- Coauthored journal entry documenting findings

ACTIVITIES

Tufts Orientation, Leader (2011, 2012), Tufts Hawai'i Club, Co-President, Tufts E-Men (Ultimate Frisbee)

PUBLICATIONS

W. Hu, Q. Fan, A. H. Nicholas, M. C. Hagenow, and A. T. Ohta, "Bubble micro-manipulator for cooperative micro-manipulation," to be presented at the 9th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE-NEMS). Apr. 2014.