

Merrill Edmonds

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Education

Duke University

B.Sc. Mechanical Engineering

GPA: 3.65

Durham, NC

May 2012

Engineering Projects

Energy Harvesting Buoy (2012)

Data Collection and Analysis, CAD/Drafting

A floating power source based on research done by Dr. Brian Mann's lab at Duke University.

Ship Scrubbing ROV (2011)

Design, Manufacturing, Testing

A remotely operated scrubber robot that attaches to hulls via a vortex generator and moves on wheels.

Magnetic Levitation Controller (2010)

Coding, Testing

A controller for a Maglev box that uses PID and fuzzy logic tracking methods with symbolic inputs.

Modular Toy Design (2008)

CAD, Prototyping

ABS prototypes of mock-up mass production toys fit for sale with children's hamburger meals.

Relevant Coursework

Compressible Fluid Flow, Engineering Acoustics, Control of Dynamic Systems, Structure and Properties of Solids, Mechanical Engineering Analysis for Design, Fluid Mechanics, Thermodynamics, Aircraft Performance, Mechanical Design, Mechanical Systems Design, Heat and Mass Transfer, Introduction to Robotics and Automation

Skills

Engineering/Math Applications (MATLAB, Simulink, Maple, SolidWorks, Inventor)

Office/Typesetting Applications (Word, Excel, Powerpoint, LaTeX)

Programming Languages (C++, Java, C#)

Postproduction Applications (Maya 3D, 3ds Max, Blender, Photoshop, Premiere, AfterEffects)

Work Experience

SHL Consulting *Istanbul, Turkey*

Editor/Translator (Freelance) Summer 2011

- Provided English translations of assessment reports under short deadlines.
- Assisted the consulting team during periods of heavy workloads.

Helpline House of Bainbridge *Bainbridge Island, WA*

Volunteer July 2006

- Worked the food bank desk and helped move items to and from storage.
- Organized contact documents.

Sinefekt, Ltd. *Istanbul, Turkey*

Post-Production Intern June-July 2004

- Modeled supplementary concept assets for a major Turkish movie.
- Followed CGI/Color team through the post-production of the movie.

Other

Engineer In Training (North Carolina), Pi Tau Sigma, ASME member, Dean's List (Fall '11) w/ Distinction (Fall '08, Spring '10), Robert College '08 Graduate (1st.)