

JONATHAN AMES

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OBJECTIVE

Seeking a full time entry position to captivate my enthusiasm for mechanical design and as a secondary objective, to cure the monetary woes of graduate student life.

EDUCATION

University of California at Berkeley, Berkeley CA
MS Mechanical Engineering expected 05/2006
GPA: 3.84 / 4.0 Focus: Design

Carnegie Mellon University, Pittsburgh PA
BS Mechanical Engineering 05/2004
GPA: 3.86 / 4.0 Andrew Carnegie Scholar

ACADEMIC PROJECTS

Magnetic Shielding for Atomic Gyroscopes, current masters project
Analysis and experimentation of small multi-layer magnetic shields for NIST atomic gyroscope project.

Plastically Deformed Micromirrors, Summer 2005
Design and analysis of MEMS vertical comb drive micromirror featuring unique suspension.
Presented Poster at BSAC Industrial Advisory Board meeting.

Hue, Robotic Dog, Summer 2003
Built color sensitive emotional robotic dog. Sophisticated mechanical and electrical design.
Designed with AutoCAD and Protel. Built from scratch.

WORK EXPERIENCE

Mechanical Engineering Department, University of California at Berkeley

Graduate Student Instructor 08/2004 - 05/2005
Taught 2 semesters of discussion/review sections for undergraduate Newtonian dynamics course
Received excellent evaluations from students

Machine Intelligence Laboratory, University of Florida, Gainesville FL

Robotics Research 05/2003 - 08/2003
Designed and Built sophisticated robot dog from scratch
365 individual wooden pieces drawn with AutoCAD, cut with T-Tech machine
7 separate circuit boards routed with Protel, cut with T-Tech machine
Programmed robot in C with Win AVR to download to ATmega128 Microprocessor

Adobe Systems Inc., Burlington MA

Quality Assurance Intern 05/2001 - 08/2001 06/2000 - 08/2000
Worked actively with the Livemotion 2.0 Quality Assurance team
Hunted and diagnosed product imperfections and recorded over 200 problems in bug database
Regressed fixed bugs to verify status and generated test files
Created imaginative and inventive uses for the product

Lenz Agency of North America, Chelmsford MA

Public Relations Assistant during academic breaks 1997-2004
Represented company at trade shows and conversed with customers, demonstrating new products
Implemented interactive web content

COMPUTER SKILLS

Skills: CAD, FEA, Programming, Optimizing, Quality Assurance, Scripting, Moviemaking, Presentation Design, Poster Design, Animation, Web Design
Applications: FEMLAB, Solidworks, Cosmos, AutoCAD, ADAMS, ANSYS, Photoshop, many others
Languages: C++, C, MATLAB, Java, JavaScript, ActionScript, HTML, Pascal
Platforms: Windows, Mac, Unix