

ADELINE R. HARRIS

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EDUCATION

- 2000-2006 Tufts University – BS & MS Mechanical Engineering Medford, MA
- 1 Graduate Research Assistant in the Tufts University Robotics Lab.
 - 2 Graduate focus on mechatronic robotic design and development, including embedded autonomous intelligence and sensors in combination with distant remote control.
 - 3 Master's Thesis Project: Designed and created prototype robotic end effector for grasping purposes in collaboration with iRobot and Tufts University Robotics Lab.
 - 4 Magna Cum Laude BSME Graduate
- 2005 Lincoln University Lincoln, New Zealand
Canterbury University Christchurch, New Zealand
- 5 Post-Graduate Certificate in Computer Science

HONORS & MEMBERSHIP

- 6 2005 Fulbright Distinguished Scholar Fellowship, New Zealand
- 7 2003 Lifetime Member – Tau Beta Pi Engineering Honor Society

EXPERIENCE

- May 2007-Present Monterey Bay Aquarium Research Institute (MBARI) Moss Landing, CA
Mechatronics Engineer, ESP Group
- 8 Design, managed and implemented development of robotic fluid handling system for microchemistry application, including software programming and mechanical and electrical systems.
 - 9 Integrated fluid handling system into parent device, including extensive debugging and testing.
- Jan 2007-May 2007 Sierra Video Systems Nevada City, CA
Software Engineer
- 10 Designed software systems for video routers, including HD, digital and analog routers.
 - 11 Tested and debugged software in router systems.
- Jan. 2006 – Sept. 2006 iRobot Corporation Burlington, MA
& Jan. – Sept. 2004
Mechanical Engineer Intern
- 12 Selected to work on mechatronic robotic design and development of component projects.
 - 13 Implemented comprehensive testing and analysis procedures to identify product defects.
- Jan. – Sept. 2005 Fulbright Distinguished Scholar Fellow New Zealand
Fulbright New Zealand Project
- 14 Design, development, and installation of interactive robotic museum exhibit.
 - 15 Collaborated with government agencies, private business, nonprofit groups, universities and public school educators throughout Australasia.
- Jan. – Dec. 2003 Breakaway Imaging, LLC (www.breakawayimaging.com) Littleton, MA
Software and Mechanical Engineering Intern
- 16 Selected to analyze and design scanner movement component design and placement in an electromechanical O-Arm scanner. Movement based on embedded intelligence.
 - 17 Analyzed, designed, and implemented a revised software program to reduce calibration error in an O-Arm 3D imaging device. Project goal achieved ahead of schedule.
- May – Sept. 2001 Visualization Technology, Inc. Lawrence, MA
Engineer Intern
- 18 Reconfigured software features for electro-magnetic (EM) image-guided surgical equipment.

SOFTWARE LITERACY

- 19 Software: C++, Ruby, Java; ASP.net, Visual Studio, SolidWorks, MathCAD, LabVIEW, MatLab, Microsoft Office Suite, Linux, Windows, Mac OS X