

MASTERS THESES AND PROJECTS CHAired BY ALICE M. AGOGINO

1.	1984/85	Timothy M. Hayes	MS Plan II	"Human Factors Display Design for a Multi-Channel Radiation Monitor"
2.	1984/85	Stephen H. Grau	MS Plan II	"The Conceptual Design of a Distributed Digital Control Network for Nuclear Power Plant Control"
3.	1985/86	Eric A. Moore	MS Plan II	"INFORM: A Knowledge Acquisition and Modeling Interface for IDES, the Influence Diagram based Expert System"
4.	1985/86	Steven L. Ethier	MS Plan II	"A Human Factors Study of the Primary Operating Displays for the NUSC Automatic Top Control Unit"
5.	1985/86	Johnston Choy	MS Plan II	"Automating SYmbolic MONotonicity Analysis"
6.	1985/86	Ron Heglie	MS Plan II	"DASCON: The Data, Acquisition Configuration System"
7.	1986/87	Kenneth M. Schneider	MS Plan II	"Real Time Control with Influence Diagram based Expert System"
8.	1986/87	Mark K. Lambert	MS Plan I	"A Graphical Interface to an Influence Diagram based Expert System"
9.	1986/87	Ann S. Almgren	MS Plan II	"Symbolic Computation for Constrained Optimization in Computer-Aided Design"
10.	1986/87	Nestor F. Michelena,	Master of Engrg	"Multiobjective Hydraulic Cylinder Design"
11.	1986/87	Kristofer A. Swanson	MS Plan II	"CVAID Expert System Development"
12.	1987/88	Lt. Leonard S. Kim	MS Plan II	"Influence Diagram and Ada based Expert System"
13.	1987/88	Jean-Michel Nataf	MS Plan II	"Automatic Modeling of Thermal Systems"
14.	1987/88	Ramanathan Guha	MS Plan II	"Induction and Analogy for Engineering Expert Systems"
15.	1987/88	Ashutosh Rege	MS Plan I	"On the Theory and Automation of Influence Diagrams: Consistency, Modeling and Implementation"
16.	1987/88	Sampath Srinivas	MS Plan II	"Inducing Influence Diagrams from Examples"
17.	1987/88	Sherry Hsi	MS Plan II	"ADIS: Assistive Device Interface Selector for the Disabled"
18.	1987/88	Michael J. Molezzi	MS Plan II	"Computer Workstation Design for Disabled Users: A Study of the Design Process"
19.	1988/89	Ramachandran Gurumoorthy	MS Plan II	"Annotated Prolog in a Distributed Environment"
20.	1988/89	Audumbar Padgaonkar	MS Plan II	"Monitoring System for the Time-of-Flight Wall at LBL"
21.	1989/90	Rhonda S. Stieber	MS Plan II	"An Expert System Advisor for Configuring Information Display Systems"

22.	1989/90	Sandra L. Turner	MS Plan II	"Preliminary Analysis of the Application of Expert Systems to Fire Detection in Structures"
23.	1990/91	Christopher Johnson	MS Plan II	"Version Control & Temporal Enhancements to DesignSCRIBE: An Information System for Concurrent Design"
24.	1991/92	Kathy Naassan	MS Plan II	"Sensor Validation for the Space Shuttle Main Engine Controller"
25.	1991/92	Keith Allan Gallion	MS Plan I	"RMS - Repair Management System: A System to Aid in the Diagnosis of Ship Structural Failures and the Evaluation of Repair Alternatives"
26.	1991/92	Regina S. Narkiewicz	MS Plan II	"Tem Pump Performance Model"
27.	1992/93	Jay Evans	MS Plan II	"Multimedia Case Studies for Teaching Best Design Practices"
28.	1992/93	Punit Jain	MS Plan II	"Intelligent Sensor Validation for Diagnostic Expert System: Integrating Algorithmic and Heuristic Processing"
29.	1992/93	James Osborn	MS Plan II	"Development of Display Object: An Interactive Educational Spatial Reasoning Tool"
30.	1992/93	Ian Zook	MS Plan II	"Using Multimedia Case Studies in Engineering: Knowledge Acquisition During Case Study Development"
31.	1992/93	Antonio Hernandez	MS Plan II	"The Identification of Successful Strategies for Spatial Reasoning"
32.	1993/94	Charles M. Carlstrom	MS Plan II	"Development, Testing, and Assessment of the Cyclone Grinder Multimedia Case Study"
33.	1993/94	Andy Dong	MS Plan II	"Design Wizard: Tools for Computer-Assisted Prototype Selection"
34.	1993/94	Todd Forsyth	MS Plan II	"A Report on the Structure and Operation of the Controlled Ecological Life Support Visual Database Project"
35.	1993/94	Nagaraj Srinivasan	MS Plan II	"Multimedia Case Studies in Engineering: Development and Assessment of the Disk Drive Case Study"
36.	1993/94	Kai Goebel	MS Plan II	"Using a Neural-Fuzzy Scheme to Diagnose Manufacturing Processes"
37.	1993/94	Pranjali Dattada	MS Plan II	"User Study for a Networked Multimedia Database of Courseware"
38.	1993/94	Stacey Au	MS Plan II	"A Multimedia Archival System for Explosively Actuated Valves: A Study in Design Archival"
39.	1994/95	Sunny Gill	MS Plan II	"The Best Practices Document: Recommendations for Using Instructional Technology for Delivery of Courseware"
40.	1994/95	Nanette Nalzar	MS Plan II	"GE Multimedia Acquisition System (GEMMAcs): A Presentation Database; A Study in Document Information Archival"
41.	1994/95	Stephen Bayne	MS Plan II	"Capturing Design Experience with a Low Cost Database for Design Component Standardization"
42.	1995/96	Zhijie Huang	MS Plan II	"An Electronic Product Catalog"

43.	1995/96	Mitchell Suarez	MS Plan II	"Neural Network Terminal Area Aircraft Trajectory Conflict"
44.	1995/96	Shad H. Shokralla	MS Plan II	"21st Century Jet: The Boeing 777 Multimedia Case Study"
45.	1995/96	David W. Bellm	MS Plan II	"Characterization of the Sonar and Radar Distance Sensing Devices under Suboptimal Operating Conditions for the California Partners for Advanced Transit and Highways"
46.	1995/96	Robert Stanard	MS Plan II	"People, Products and Process: Interactive Multimedia Case Study in Integrated Design, Manufacturing Strategy and New Product Development"
47.	1996/97	Jorge Enrique Barreto	MS Plan II	"Augmenting Information Retrieval Using EVPI Computation"
48.	1996/97	David Yu	MS Plan II	"The Virtual Disk Drive Design Studio"
49.	1996/97	Bradly Cammon	MS Plan II	"Integration of Sensor Validation and Fusion Techniques with SmartPath: A Process and Performance Evaluation"
50.	1997/98	Ya Wen	MS Plan II	"People, Products and Strategies: The Design and Development of a Web-based Multimedia Case Study"
51.	1997/98	Jiangxin Wang	MS Plan II	"Sensor Validation and Fusion of GPS Aided Longitudinal Positioning System for IVHS"
52.	1998/99	Youhao Jing	MS Plan II	"MESANet: Facilitating MESA Design with Internet and a WWW-based Learning Environment"
53.	1998/99	Rebecca F. Richkus	MS Plan II	"Web Implementation and Enhancement of the Virtual Disk Drive Design Studio," Netscape Version and Internet Explorer Version
54.	1998/99	Aparoop (Tina) Dutta	MS Plan II	"Geographically-Independent Learning: Built & Designed for ME290P"
55.	1999/2000	Jason Puzniak	MS Plan II	"The Role of On-Line Communication and Community in a Digital Library for Science, Mathematics, Engineering, and Technology Education"
56.	2001/2002	Andrew Hill	MS Plan II	"Creating Online Faculty Collaboration to Develop Engineering Education Computer Learning Materials"
57.	2001/2002	Jessica Granderson	MS Plan II	"Development of an On-Line Design Guide for Cal MESA's (Mathematics, Engineering and Science Achievement) BEST (Boosting Engineering Through Science and Technology Robotics Competitions)"
58.	2002/2003	Rebekah Yozdell-Epstein	MS Plan II	"Economic, Energy and User Needs Analysis of an Intelligent Lighting System"
59.	2003/2004	Matthew Dubberly	MS Plan II	"Life Cycle Assessment of an Intelligent Lighting System using a Distributed Mote Network"
60.	2003/2004	Hengsi Lin	MS Plan II	"A Protocol for Evaluating Designers' Sketching Activities"
61.	2003/2004	Mohammad Rasheq Zarif	MS Plan II	"Categorization of Current MEMS Suspension Design Variants"
62.	2004/2005	Yao-Jung Wen	MS Plan II	"Smart Dust Sensor Mote Characterization, Validation, Fusion and Actuation"

63.	2004/2005	Julien Sauvageon	MS Plan II	"Integrated Systems Health Monitoring Using Smart Dust Mote Sensor Networks: Hot Spot and Peak Strain Detection in Space Vehicles"
64.	2004/2005	Vinukumar Ranganathan	MS Plan II	"Locking-free Curved Beam Finite Element formulation And its application in MEMS Resonators "
65.	2004/2005	Marisela Avalos	MS Plan II	"Technology Assessment of Implantable Cardioverter Defibrillator Batteries"
66.	2005/2006	Lionel Mohri	MS Plan II	<u>"The Design Process through the Eyes of a Berkeley Student"</u>
67.	2005/2006	Fabian Beltran	MS Plan II	"Human Preference Testing for Smart Lighting"
68.	2006/2007	Esha Datta	MS Plan II	<u>"Mobile Learning and Digital Libraries: Designing for Pre-Engineering Education at the Elementary School Level "</u>
69.	2007/2008	Stephanie Lynn Robinson	MS Plan II	"A Usability Assessment of the Engineering Pathway Educational Digital Library"
70.	2007/2008	Jennifer Mangold	MS Plan II	"A User Needs Study of K-12 Teachers for the Engineering Pathway Educational Digital Library"
71.	2007/2008	Andrew Favor	MS Plan II	"Exploring a Publisher Funded Business Model by Using Engineering Pathway as a Content Platform"
72.	2007/2008	Ryan Shelby	MS Plan II	"Thermal Endurance and Cryogenic Capable Pressure Vessel Design for a (L)H2 Fueled Toyota Prius"
73.	2007/2008	Lora Oehlberg	MS Plan II	"Tangible and Digital Media in Design Journals: Medium's Influence on Sketching Behavior"
74.	2007/2008	Kimberly Lau	MS Plan II	"Sketching Behavior and Design Journals"
75.	2007/2008	Rupam Singla	MS Plan II	<u>"Designing a Suit to Protect Migrant Farm Workers in California from Pesticide Exposure"</u>
76.	2007/2008	James T. Bonnell	MS Plan II	<u>"Green Lighting: Wireless Lighting Systems Integration for Significant Energy Savings"</u>
77.	2008/2009	Timothy Robert Jacobi	MS Plan II	<u>"A Product Development Case Study in the Amusement Industry"</u>
78.	2008/2009	Johanna Louise Mathieu	MS Plan II	<u>"Design of a Rural Water Provision System to Decrease Arsenic Exposure in Bangladesh"</u> (with Ashok Gadgil)
79.	2008/2009	Nick Adrian Galano	MS Plan II	<u>"Smart Lighting: LED Implementation and Ambient Communication Applications"</u>
80.	2008/2009	Celeste Roschuni	MS Plan II	<u>"Relationship Conflict And Feeling Communication In Design Teams"</u>
81.	2009/2010	Kayvan Nowrouzi	MS Plan II	"Node Weight Modeling for Optimal Routing: The Mobile Millennium Project" (with Alexandre Bayen)
82.	2011/2012	Jennifer Wang	MS Plan I Thesis	"Engineering Learning at a Science Center" (with Lisa Pruitt and Marcia Linn)
83.	2011/2012	Ryan Paulson	MS Plan II	<u>"Personalized Illuminance Model Using Inverse Modeling and Piecewise Linear Regression"</u>
84.	2012/2013	Daniel Wilson	MS Plan II	"Life Cycle Assessment Shows Carbon Savings from a Fuel-Efficient Biomass Cookstove Dwarf Embodied Carbon Emissions"

85.	2012/2013	Vivek Mohan Rao	MS Plan II	"Building Facades for Solar Water Treatment: Design and Characterization of a Vertically-Integrated Multistep (VIMS) Solar Photocatalytic Water Treatment Reactor"
86.	2012/2013	Qi Hongo	MS Plan II	"Sustainability Guidelines for Early Product Development: Focus on Hot Water Kettles and Florescent Lights"
87.	2012/2013	Hanxin Shen	MS Plan II	"Sustainability Guidelines for Early Product Development: Focus on Office Seating and Childhood Furniture"
88.	2012/2013	Rui Guo	MS Plan II	"Sustainability Guidelines for Early Product Development: Focus on Cell Phones"
89.	2012/2013	Guang Zhu	MS Plan II	"Sustainability Guidelines for Packaging"
90.	2012/2013	Min Zhu	MS Plan II	"Sustainability Guidelines for Early Product Development: Focus on Jeans and Footwear"
91.	2012/2013	Chaten Boscha	MS Plan II (Co-Chair)	"Samsung Capstone Project: Assessing Risks and Opportunities of Introducing a Controversial/Unconventional Technology within an Existing Framework"
92.	2013/2014	Dizhou Lu	MS Plan II	"Structural Design for Tensegrity Mechatronics"
93.	2013/2014	Justino J. Calangi	MS Plan II	"Model-Based Control System for Packing a 6-Bar Tensegrity Structure"
94.	2013/2014	Eric Cheng-yu Hong	MS Plan II	"Viability of Tensegrity Robots in Space Exploration"
95.	2013/2014	Yuejia (Margaret) Liu	MS Plan II	"Tensegrity Soft Robot for NASA Mission"
96.	2013/2014	Yangxin Chen	MS Plan II	"Structure and Actuation Design of a 6-Rod Tensegrity Robot"
97.	2013/2014	Greg Quan	MS Plan II	"New Mobility Solutions for a Changing Automotive Landscape: Development of a Shared Transportation Web Platform"
98.	2013/2014	Saddiq Nuru	MS Plan II	"Identifying Opportunity Spaces in the Car/Ride Sharing Environment: Creating a Framework for a Suburban Community Circulator"
99.	2013/2014	Weishi Wu	MS Plan II	"Residential Mobility Solution and Life-Cycle Assessment of Community Carsharing"
100.	2013/2014	Rahul Mehendiratta	MS Plan II	"Residential Mobility Solution and Life-Cycle Assessment of Community Carsharing"
101.	2013/2014	Aadityeshwar Saran Singh Deo	MS Plan II	"Mercedes-Benz Residential Mobility Service: Framework to Evaluate the Change in Greenhouse Gas Emissions"
102.	2013/2014	Andrew Kam	MS Plan II	"Collaborative Workspace Design: Digital Device Design of Digital-Tangible Platforms"
103.	2013/2014	Joshua Harling	MS Plan II	"Collaborative Workspace Design: User-Experience Analysis of Digital-Tangible Platforms"
104.	2013/2014	Xueying (Cheryl) Hou	MS Plan II	"Collaborative Workspace Design: Sustainability Analysis of Digital-Tangible Platforms"
105.	2013/2014	Ellen Dong	MS Plan II	"Collaborative Workspace Design: Hardware Design Analysis of Digital-Tangible Platforms"

106.	2013/2014	Pierce Gordon	MS Plan II (Co-Chair with Dan Kammen)	"Design Thinking for the Poor: A Comparative Content Analysis of Development Challenges in OpenIDEO"
107.	Summer 2014	Rong Lily Hu	MS Plan II	"A Statistical Learning Approach for Detection of a Chiller Energy Efficiency Fault"
108.	Fall 2014	Hugo Wagoner	MS Plan II	"Open Innovation Business Models for the Development of a Tensegrity Toy Kit"
109.	Fall 2014	Jeffrey Lee	MS Plan II	"Pinoleville Pomo Nation Sustainable Home: A case study of energy modeling on sustainable design"
110.	Fall 2014	Andrew P. Sabelhaus	MS Plan II	"Mechanism and Sensor Design for SUPERball, a Cable-Driven Tensegrity Robot"
111.	Spring 2015	Jessica Lee	MS Plan II	"Anisotropic Collapsible Leg Spines for Increased Millirobot Traction"
112.	Spring 2015	Kathryn G. Van Lieshout	MS Plan II	"Environmental Impact and Indoor Quality Assessment of Pinoleville Pomo Nation Demonstration Home: An implementation of life cycle assessment and culturally inspired design"
113.	Spring 2015	Julien J. Caubel	MS Plan II	"A Low-Cost, Compact Low Carbon Sensor to Monitor Biomass Cookstove Emissions"
114.	Spring 2015	Colin Ho	MS Plan II	"A Haptic Display Using Interleaved Belts to Simulate Lateral and Rotational Slip"
115.	May 2015	Jonathan Chinen	MEng Plan II	"IoT and the Restorative Smart Office"
116.	May 2015	William J. Frese	MEng Plan II	"Design of a Bioreactive System for Emotionally Intelligent Internet of Things Environments"
117.	May 2015	Lee Benjamin Hamstra	MEng Plan II	"Environmental Responses to Stress in the Office of the Future"
118.	May 2015	Daylun (Daniel) Lim	MEng Plan II	"Rapid Prototyping in UX Design Research for the Internet of Things"
119.	May 2015	Oscar Segovia	MEng Plan II	"Audio, IoT and the Advent of the Smart Office"
120.	May 2015	Dayana Hijaz	MEng Plan II	"Green Design Guide for Design Professionals"
121.	May 2015	Baris Ozgen	MEng Plan II	"Green Design Strategies for Consumer Electronics: Results and Case Studies from the Internet of Things"
122.	May 2015	Joey Le Zhang	MEng Plan II	"Green Design Guide for Design Professionals: Product Environmental Performance Study"
123.	May 2015	Yujiang Sun	MEng Plan II	"Green Design Guide for Design Professionals: UX design for green sustainability guide"
124.	May 2015	Patrick Bailey Hylton	MEng Plan II	"Mechantronics and Design of the Passive Compliance system of the ULTRA Spine, A Tensegrity Robot"
125.	May 2015	Yakshu Madaan	MEng Plan II	"Design and Prototypes of Structure and Guide Pulleys for ULTRA Spine - a tensegrity robot"
126.	May 2015	ChanWoo Yang	MEng Plan II	"Simulations and Dynamics Modeling for Tensegrity Soft Spine Robotics: ULTRA Spine"
127.	May 2015	Lim Yusheng Alexander	MEng Plan II	"Design of a New Spherical Tensegrity Robot Kit"

128.	May 2015	Azhar Khaderi	MEng Plan II	"Mechatronics and Control of a Spherical Tensegrity Robot Kit"
129.	May 2015	Peadar Keegan	MEng Plan II	"Electronics & Software Design of a Spherical Tensegrity Robot for NASA Missions"
130.	May 2015	Xiang Lee	MEng Plan II	"A Study in Artificial Intelligence Methods for Spherical Tensegrity for NASA Missions"

Last updated: 6 July 2015