

Devyn M. Dodge

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EDUCATION

Bachelor of Science

May 2016

University of Central Florida – College of Engineering and Computer Science
Major: Information Technology
Minor: Business Management
Information Technology GPA: 3.73/4.0

Master of Science

August 2017

University of Central Florida – College of Engineering and Computer Science
Major: Modeling and Simulation
Concentration: Interactive Simulation and Intelligent Systems
Minor: Intelligent Robotic Systems
GPA: N/A/4.0

HONORS AND AWARDS

2015	President's List (4.0 semester GPA)
2015	University of Central Florida Dean's List (3.5 semester GPA/2 semesters)
2015	Millican Gold Grant (Grant awarded by having exceptional grades)
2015	UCF Rugby National Championships – 2 nd Place
2013 & 2014	UCF Rugby National Championships – 1 st Place
2012	UCF IEEE Robotics Competition – 1 st Place
2012	UCF "Navel" Boat Engineering Competition – 1 st Place
2012	UCF "Navel" Boat Engineering Ingenuity Design Award
2011	UCF Mars Rover Engineering Competition – 4 th Place
2010 – Present	Boy Scouts of America – Eagle Scout and Order of the Arrow

RESEARCH EXPERIENCE

UCF Minds in Technology Lab – Dr. Peter Hancock, Ph.D.

June 2015 – Present

Research Assistant

Handling and protecting confidential and sensitive data with integrity, assisting with technical reports, conducting literature reviews, running experimental sessions, managing data collection, and assisting in the execution and evaluation of research projects, including data integration and analysis.

Coding and Robotics Specialist

Robot and machine manufacturing for research experiments. Design and Implement custom specifications for Doctoral students and lab staff. Document robotic application development, maintenance, and/or changes. Supervise technologists, technicians, or other engineers.

Personal Assistant to Dr. Peter Hancock, Ph.D.

Generating and formatting APA citations, preparing and editing documents for presentations, bookkeeping, and administrative research laboratory tasks.

UCF Institute for Simulation and Training – Dr. Eduardo Salas, Ph.D. June 2013 – 2015

Research Assistant

Assisting with technical reports, literature database searches, conducting literature reviews, executing experiment sessions, generating and formatting APA citations, revising, and editing, coding, and administrative research laboratory tasks

PUBLICATIONS AND POSTER PRESENTATIONS

Dodge, D. Stowers, K. (2016, April) *Building Modular Robots for Use in HRI Research*. Human Factors and Applied Psychology Conference at Embry-Riddle, Daytona Beach, Florida.

Volante, W., Sanders, T., **Dodge, D.**, Yeardon, V., Hancock, P. (2016, September) *Factors Influencing Trust in HRI: Form and Reliability*. Human Factors and Ergonomics Society Conference at Washington Hilton, Washington DC.

Stowers, K., **Dodge, D.** (2015, April) *Bridging the Gap between Psychology and Engineering Through the Use of Unified Modeling Language*. Human Factors and Applied Psychology Conference at Embry-Riddle, Daytona Beach, Florida.

RELEVANT RESEARCH PROJECTS

Empirical Investigation of Social Dynamics and Trust in Soldier-Robot Teams

February 2015 – Current

- Funded by the Army Research Laboratory via General Dynamics
- Principal Investigator: Stephen Fiore, Ph.D.
- Additional Investigator: Peter Hancock, Ph.D.
- My role: Lead robotics developer/manufacture - Constructed two autonomous, modular robots. Assist with technical writing, and oversight of experimentation design and implementation that compares robots of varying shapes, sizes, and materials, and their impact on trust, workload, and performance.

Social Learning in Mixed Human-Robot Groups for People with Disabilities

May 2015 - Current

- Funded by National Science Foundation
- Principal Investigator: Aman Behal, Ph.D.
- Additional Investigator: Peter Hancock, Ph.D.
- My role: Lead robotics developer/manufacture - Constructed two tasking modules for autonomous robots, animatronic eyes and a robotic arm mounted on a chassis. Assist with technical writing, and oversight of experimentation design and implementation.

Workload and Scheduling Tools for Long Duration Missions

June 2015 – April 2016

- Funded by NASA Johnson Space Center
- Principal Investigator: Peter Hancock, Ph.D.
- My role: Assist with technical writing, logistics, meta-analyses, interviews, and project management along with establishing a pre-experiment plan of action.

PROFESSIONAL EXPERIENCE

DMD Robotics (Robot and Machine Manufacturing)

July 2015 - Present

Founder and Lead Project Manager

A robotics company centered around the University of Central Florida that focuses on providing hands-on experience to young aspiring engineers and computer science majors. I manage a team of individuals whose skill sets range from minimal knowledge in manufacturing tools, to basic programming skills. DMD Robotics was created to fulfill the need of “you need experience to get experience” for future careers.

Internship/Shadowed with NASA and Kennedy Space Center

August 2012

Safety and Mission Assurance Directorate – Ellison, Robert M.

Responsible for overall management, safety, and implementation of the policy in the areas of Occupational Safety and Health, System Safety, Reliability and Risk Assessment, Mission Software and Ground Systems Assurance, Quality Engineering, Systems Review, Management Systems and Mission Assurance.

Publix Grocery Store

June 2010 - June 2011

Cashier and Front Service Clerk

Completes customer transactions on the cash register. Key job duties include; scanning items, applying coupons, checking prices, processing payments, and making change. Requires basic skills in reading and mathematics.

PROFESSIONAL SKILLS PROFILE

Materials and Processes for Manufacturing

CITI Certified

Computer System Studies

SONA Research Participation System

Mechanical & Technical Studies for Engineering

Experienced Microsoft Office User

Graphic Arts (Photoshop and Illustrator)

Casual Spanish speaking skills

Skilled in AutoCAD, Mastercam, Rhino, Excel

Keen/Perceptive/Astute/Problem Solver

Works well with others (As well as leadership and multitasking abilities)

Advanced robotics designer, manufacturer, and developer.

Advanced computer skills, including knowledge in programming (Q Basic, STAMP, Python, C, Java, JavaScript, HTML, SQL)

MEMBERSHIPS AND AFFILIATIONS

UCF's Rugby Club	<i>Treasurer 2014 – 2015</i>
	<i>Captain 2011 – 2013</i>
	<i>Member 2011 – 2016</i>
UCF's American Society for Mechanical Engineers (ASME)	<i>2012</i>
UCF's Robotics Club	<i>2011 - 2013</i>
UCF's American Institute of Aeronautics & Astronautics (AIAA)	<i>2011 – 2012</i>

REFERENCES

Dr. C. Shawn Burke, Ph.D.
Research Scientist – University of Central Florida – Institute for Simulation & Training
sburke@ist.ucf.edu
(407) 882-1300

Dr. Peter A. Hancock, Ph.D.
Provost Distinguished Research Professor – University of Central Florida
Peter.Hancock@ucf.edu
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Kimberly Stowers, M.S.
Graduate Research Assistant – University of Central Florida
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(352) 406-5258