# **Trey Roady**

PhD Pre-Candidate, Human Factors Engineer 105 Moss 

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# **OBJECTIVE**

Seeking a full-time position in user experience research & development and other human factors-related fields.

EDUCATION PhD, Interdisciplinary Engineering – Human Factors & Cognitive Systems Texas A&M University, College Station, TX GPR 3.45 / 4.0 Faculty Advisor: Thomas K. Ferris	Expected: December 2016
<b>BS</b> , Industrial & Systems Engineering, Minor: Psychology Texas A&M University, College Station, TX GPR 3.36/ 4.0	May 2012
<ul> <li>RESEARCH</li> <li>PhD Pre-Candiate Primary Projects: <ul> <li>Creative Haptic Interaction At-A-Distance (CHIAD) system: human-havibrotactile communication and navigation</li> <li>Systems Engineering Initiative for Patient Safety – Mobile (SEIPS-m) framework for evaluation of mobile health technologies</li> <li>Secondary Projects:</li> <li>Security framework for digital voting systems</li> <li>Tangible user interface for development of communication skills in not</li> <li>Analysis of empathy in online communication for identification of flat</li> <li>Student Technician, II</li> <li>Projects:</li> <li>Creative Haptic Interaction At-A-Distance (CHIAD) system</li> </ul> </li> </ul>	: medical device development on-verbal autistic children
Organizations Human Factors and Ergonomics Society, Student Member President, Texas A&M University Chapter • Founded local chapter • Chaired chapter meetings	2011 - Present 2014 - Present
<ul> <li>Organized resources for chapter activities and documentation</li> <li>Institute of Industrial Engineers, Student Member</li> <li>Cepheid Variable, Member</li> </ul>	2013 – Present 2007 - Present
<ul> <li>Security Officer, AggieCon 47</li> <li>Recruited, trained, and oversaw security workers for AggieCon event</li> <li>Student Development Officer</li> <li>Oversaw all recruitment and retention activities and mediated in-group disput for roughly 200 individuals.</li> </ul>	2015 - 2016 2011- 2012

• Managed formal mentorship program

### **Student Mentor**

• Provided guidance and hands-on-support for one new freshman each year

# PUBLICATIONS

#### Theses

1. Roady, T. (2012) An analysis of static, dynamic, and apparent motion vibrotactile stimuli. (Undergraduate research thesis).

#### Peer Reviewed Conference Proceedings

- Roady, T. and Ferris, T.K. (2014). Supporting speeded navigational communication via gesturecontrolled vibrotactile displays. Proceedings of the Human Factors and Ergonomics Society 58<sup>th</sup> Annual Meeting. Chicago, IL. October. (Presenter)
- Tippey, K. G., Sivaraj, E., Ardoin, W., Roady, T., and Ferris, T.K. (2014). Texting while driving using Google Glass: investigating the combined effects of heads-up display and hands-free input on driving safety and performance. Proceedings of the Human Factors and Ergonomics Society 58<sup>th</sup> Annual Meeting. Chicago, IL. October.
- Roady, T. and Ferris, T.K. (2013). Supporting speeded navigational communication via gesture-controlled vibrotactile displays. Proceedings of the Human Factors and Ergonomics Society 57<sup>th</sup> Annual Meeting. San Diego, CA. October. (Presenter)

#### Winner: Best Student Paper Award, Perception & Performance Technical Group

**4.** Roady, T. and Ferris, T.K. (2012). An analysis of static, dynamic, and saltatory vibrotactile stimuli to inform the design of efficient haptic communication systems. Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting. Boston, MA. October. (Presenter)

### Presentations (without Peer-Reviewed Proceedings)

- 1. Roady, T. and Ferris, T.K. (2015). SEIPS-m: a SEIPS extension for mobile health development. *Houston Human Factors Symposium*. Houston, TX. May. (Presenter)
- 2. Roady, T. (2014). Complex tactile interactions over distance to support collaborative navigation tasks. *Institute of Industrial and Systems Engineers Annual Conference and Expo*. Montreal, Canada. May. (Presenter)
- 3. Roady, T. and Ferris, T.K. (2014). Development of a person-to-person haptic communication system. *Southwest Regional Human Factors & Ergonomics Society Symposium*. College Station, TX. June. (Presenter)

# HONORS

Houston HFES Student Travel Award	October 2014
Best Student Paper Award, Perception and Performance TG, HFES Annual	Meeting October 2013
HFES Council of Technical Groups Student Travel Honorarium	October 2013
Undergraduate Research Scholar, Texas A&M University	May 2012
Mayfield Engineering Scholarship	August 2008 - May 2014
Class of '89 Endowed Scholarship	August 2007 – August 2008
President's Endowed Scholarship	August 2007 – August 2008
National Merit Scholar	

## SKILLS

Cognitive systems engineering, sociotechnical systems, usability evaluation, user-centered design (heuristic analysis, persona development, and hierarchical task analysis), individual and group decision-making, experimental design for human subjects, human computer interaction, job analysis, ethnography, C/C++, R statistical programming, Microsoft Excel with Visual Basic for Applications, Arena simulation software, wireframe prototyping in Axure, Mechanical Turk, Qualtrics, statistical process control, facilities design, project management, public speaking, debate, computer systems repair and administration, and basic written Spanish competency