




ECCENTRIC COG

Trey Roady, AHFP

UX Researcher
Human Factors Engineer
College Station, TX

 TreyRoady@tamu.edu

 (325) 864-8216

 www.EccentricCog.net

Skills

UX / HCD:

Heuristic Walkthrough,
Persona Analysis,
Hierarchical Task Analysis,
Change Management,
Axure Prototyping

Ethnography:

Survey Development,
Qualtrics, mTurk,
Industrial Evaluation
Job Analysis

Engineering:

Optimization, Statistics,
Quality Control,
Facility Design,
Material Handling,
Industrial Experiments,
Engineering Management,
Arena Simulation

Programming:

C/C++, Python, R, VBA

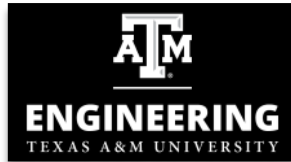
Professional:

Public Speaking, Debate
Technical Writing,
Spanish (basic)

Summary

Passionate advocate for human centered systems. Blends strong quantitative background with qualitative research methods to define user pain points and drive lean and responsive experiences. Extremely comfortable combining insights from different fields. Notable experience with professional communication, mentorship, and group leadership. Believes strongly in bettering and empowering users by aligning incentives.

Education



PhD: Interdisciplinary Engineering (Expected August 2017)

Focus: Human Factors & Cognitive Systems

BS: Industrial & Systems Engineering (May 2011)

Minor: Psychology

Career

Research Assistant, HF&CS Lab May 2014 - Aug. 2015; May 2016 - Present

- FAA PEGASAS: Identified pilot demographic most likely to violate FAA standards; created FAA technology standards to support cognitive workload
- Developed mobile medical device evaluation framework, SEIPS-m

Teaching Assistant, College of Engineering Aug. 2012 - May 2014

Aug. 2015 - May 2015

- Mentored 15 senior design groups in industry consultation; clients included Fortune 500 companies, NASA, and major hospital systems
- Facilities Design & Material Handling (2 sem.) and Statistical Quality Control (1 sem.)
- Promoted to Lead TA

Student Tech. II, Human Factors & Cognitive Systems Lab Oct. 2011 - Aug. 2012

- Lead developer and experimenter on CHIAD, a novel vibrotactile communication interface supporting stress and mental overload

Student Tech. II, College of Architecture July 2010 - May 2012

- Scripted controls for hundreds of lab computers; Remote and in-person IT support & repair; Licensed Dell technician

Honors

Outstanding Student Member, Texas A&M HFES Apr. 2017

Winner & Best Presentation: UX Guerilla Design Challenge, HFES Sept. 2016

Student Observer: HFES Executive Council Meeting Apr. 2015

Student Travel Award, Houston HFES Oct. 2014

* **Best Student Paper: HFES Perception & Performance TG** Oct. 2013

Student Travel Honorarium: HFES Council of Technical Groups Oct. 2013

Undergraduate Research Scholar May 2012

Mayfield Engineering Scholarship Aug. 2008 - May 2014

President's & Class of '89 Endowed Scholarships Aug. 2007 - Aug. 2008

National Merit Scholar



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Organizations

Board Certification in Professional Ergonomics, Associate Human Factors Professional
2016 - Present

Human Factors and Ergonomics Society, Student Member
2011 - Present

Houston Chapter, Student Member
2013 - Present

Texas A&M University Chapter, President
2014 - 2016

- Founded chapter, which received Silver award status first two years

Institute of Industrial Engineers, Student Member
2013 - Present

Cepheid Variable, Member
2007 - Present

Head Security Officer, AggieCon 47
Mar. 2016

- Recruited, trained, and supervised 15 security workers for 500 guest convention
- Commended by attendees for professionalism and customer service of volunteer staff

Student Development Officer
2011 - 2012

- Recruitment numbers broke fire code 4 meetings running
- Managed formal mentorship program for ~30 students

Student Mentor
2010 - 2016

Publications

Theses

1. Roady, T. (2012) An analysis of static, dynamic, and apparent motion vibrotactile stimuli. Texas A&M University. (Optional undergraduate research thesis)

Peer-Reviewed Conference Proceedings

1. Dinakar, S., Tippey, K., Roady, T., Edery, J., and Ferris, T.K. (2016). Using modern social network techniques to expand link analysis in a nuclear reactor console redesign. Proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting. Washington, DC. September. (Presenter)
2. Roady, T. and Ferris, T.K. (2014). Supporting speeded navigational communication via gesture-controlled vibrotactile displays. Proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting. Chicago, IL. October. (Presenter)
3. 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 58th Annual Meeting. Chicago, IL. October.
- * 4. Roady, T. and Ferris, T.K. (2013). Supporting speeded navigational communication via gesture-controlled vibrotactile displays. Proceedings of the Human Factors and Ergonomics Society 57th Annual Meeting. San Diego, CA. October. (Presenter)
5. Roady, T., & Ferris, T. K. (2012). An Analysis of Static, Dynamic, and Saltatory Vibrotactile Stimuli to Inform the Design of Efficient Haptic Communication Systems. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 56, No. 1, pp. 2075-2079). SAGE Publications.