

Thomas M. Schnieders
Curriculum Vitae

Date: 3 February 2016

Name: Thomas M. Schnieders

Department: Industrial and Manufacturing Systems Engineering

Current Rank: Master of Science Student

I. PERSONAL HISTORY AND PROFESSIONAL EXPERIENCE

A. Educational Background

M.S. Human Computer Interaction & Industrial Engineering, concentrating in Ergonomics and Human Factors Engineering, Iowa State University, (Expected Spring 2016)

B.S. Mechanical Engineering, Iowa State University, 2014

B. Professional Appointments

Co-Founder, Lab Coordinator, & Webmaster, The ATHENA Lab (Augmentation and Training of Humans with Engineering in North America), Iowa State University, November 2015 – Present

Undergraduate Research Assistant (URA) Mentor, Human Performance and Cognitive Engineering lab, Iowa State University, August 2015 – Present

Instructional Design Graduate Teaching Assistant, Engineering-LAS Online Learning, Iowa State University, September 2015 – Present

Intern, Woodward Resource Center, Adaptive Technology Center, Woodward, Iowa, May 2014 – August 2015

Undergraduate Research Assistant, The Virtual Reality Applications Center, Iowa State University, May 2012 – January 2014

C. Honors, Recognitions, and Outstanding Achievements

- **The ATHENA Lab recognized as the first Augmented Human Lab in the United States, November 2015**
- **Co-Founded The ATHENA Lab with Dr. Richard T. Stone, November 2015**
- Accepted into Bard College at Simon's Rock at the age of 16
- Order of the Engineer 2013
- American Society of Mechanical Engineers 2011
- New York State School Music Association 28/28 Piano level IV 2009
- Student Ambassador, People to People, China 2009
- 4th place in National Junior Sailing Regatta 2008

II. PUBLICATIONS AND CREATIVE WORKS

A. Master of Science Thesis Title

ARCTiC LawE: An Upper Body Exoskeleton for Law Enforcement Training

B. Articles in Journals or Conferences (under review, accepted, or in progress)

- B1: Thomas M. Schnieders, Richard T. Stone, “Current Work in the Human-Machine Interface for Ergonomic Intervention with Exoskeletons”, *Journal of Human-Robot Interaction*, under review.
- B2: Richard T. Stone, Michael Dorneich, Thomas M. Schnieders, “Punching Technique – Efficiency and Effectiveness”, *Augmented Human Research*, in progress.
- B3: Richard T. Stone, Thomas M. Schnieders, Tyler Oviatt, “The Impact of Inspector’s Cognitive Style on Performance in Various Visual Inspection Display Tasks”, *Human Factors and Ergonomics Society*, Accepted.
- B4: Richard T. Stone, Thomas M. Schnieders, “TRUST, situation awareness and automation use: Exploring the effects of visual information degradation on human perception and performance in human-teleoperator system”, *Journal of Human-Robot Interaction*, under review.
- B5: Brandon Moeller, Richard T. Stone, and Thomas M. Schnieders, “VAPPR Pad – Advanced Personal Protective Equipment for the Lower Body”, *International Journal of Human Factors and Ergonomics*, under review.
- B6: Thomas M. Schnieders and Richard T. Stone, “ARCTiC LawE: Actuated Exoskeleton for Firearm Training”, *Augmented Human Research*, in progress.
- B7: Morgan L. Hampel, Richard T. Stone, and Thomas M. Schnieders, “A psychophysical study on the effect protective equipment has on contact sport athletes”, *Applied Ergonomics*, in progress.