Stephen Eick

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Education

Georgia Institute of Technology

Aug. 2018– **Student, PhD in Computer Science**.
Graduate Certificate in Public Policy (in-progress)
Field of Study: Robotics & Privacy
Advisor: Annie I. Antón

May 2018 **Master of Science, Computer Science**.
Specialization in Computational Perception & Robotics

University of Wisconsin–Madison

May 2016 **Bachelor of Science, Computer Engineering**.

May 2016 **Bachelor of Science, Computer Science**.

Experience

Georgia Institute of Technology

2018 **Graduate Teaching Assistant**, *Privacy Technology, Policy, & Law*.

2018 **Research Scientist**.

2018 **Graduate Research Assistant**.

2018 **Teaching Assistant**, *Introduction to Smart Product Design*.

IBM

2017 **Software Engineer Intern, FICON**, Poughkeepsie, NY.

iRobot

2017 **Robot Engineering Intern**, Bedford, MA.

WiNGS Lab, University of Wisconsin–Madison

2015–2016 **Research Assistant**, Madison, WI.

Extreme Engineering Solutions, Inc.

2014 **Hardware Design Verification Co-op**, Middleton, WI.

CUNA Mutual Group

2013 **App Hosting Admin/Ops Intern**, Madison, WI.

Publications

Refereed Conference Proceedings

D. Ta, N. Banerjee, S. Eick, S. Lenser and M. E. Munich. "Fast Nonlinear Approximation of Pose Graph Node Marginalization," *35th IEEE International Conference on Robotics and Automation (ICRA18)*, Brisbane, QLD, pp. 2494-2501, 21-25 May 2018.

Refereed Workshop Proceedings

Yaling Liu, Stephen Eick, and Wei Wang. "Design for Wearable Interactivity," *2018 International Design Conference (IDC18) Education Papers Session*, New Orleans, LA, 19-22 Sept. 2018.

Awards & Honors

2018 **President's Fellow**, *Georgia Institute of Technology*.
2017 **Verizon Fellowship**, *Georgia Institute of Technology*.
2017 **Roomba Pull Winner**, *iRobot*.
2016 **Dean's List**, *University of Wisconsin–Madison*.
2015 **Best Staff Writer**, *Wisconsin Engineer Magazine*.

Service & Leadership

iRobot

2017 **Exhibit Coordinator**, *Northeast Elementary School*, Waltham, MA.

University of Wisconsin–Madison

2014–16 **President**, *Wisconsin Robotics*.
2015–16 **Electrical Lead**, *Badger Robotic Mining Team*.
2015–16 **Staff Writer**, *Wisconsin Engineer Magazine*.
2015–16 **Project Lead**, *Garage Physics*.
2013–16 **Exhibit Coordinator**, *Engineering Expo*.
2013–16 **Exhibit Coordinator**, *Wisconsin Science Festival*.
2014–16 **Exhibit Coordinator**, *Museum of Science and Industry*, Chicago, IL.
2014–15 **Treasurer**, *Wisconsin Robotics*.
2014–15 **Electrical Lead**, *Wisconsin Robotics*.
2013–14 **Member**, *Wisconsin Robotics*.
2014 **Robot Design Judge**, *FIRST Lego League*, Madison, WI.

Teaching Experience

2016 **Scratch Programming Instructor**, *Shorewood Hills Elementary*, Madison, WI.

Projects

Software

Data Processing Pipeline for Machine Learning, *IBM*.
Self-managed project; experimental, in-house data acquisition and filtering tool as the input to a machine learning pipeline.

Imaging Pipeline Extension, *iRobot*.
Designed and implemented a substantial modification to fundamental on-robot capabilities to be shipped in future products.

Image Annotation Tool, *iRobot*.

Mapping Justice, *Georgia Institute of Technology*.
Developed for the Atlanta Legal Aid Society; visualizes contract-for-deed properties in the Atlanta metro area.

Interactive Music Exhibit, *Georgia Institute of Technology*.
Tracked people and objects in 2D plane using arrays of ultrasonic distance sensors for real-time music generation.

Network Performance Testing Suite, *WiNGS Lab*.

Robots **Insomnia**, *Wisconsin Robotics*.
Robot which navigated Martian-like terrain, manipulated objects, and performed scientific measurements at the University Rover Challenge.

Atlas, *Wisconsin Robotics*.
Autonomous tour-guide robot.

Minibot, *Wisconsin Robotics*.
Carbon-fiber unibody robot for prototyping and outreach.

BLER, *Badger Robotic Mining Team*.
Lunar regolith simulant mining robot built for the NASA Robotic Mining Competition.

Hardware **CNC Router, FPGA Arduino Shield, Eight-Layer SBC Backplane, H-Bridge Motor Controller, Arduino-Based Microcontroller Board, LED Cube**