Stephen Eick

Curriculum Vitae

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Education

2016–Present **Master of Computer Science**, *Georgia Institute of Technology*, Atlanta, GA.
- Specialization in Computational Perception & Robotics
- Concurrently pursuing a Graduate Certificate in Public Policy

2011–2016 **Bachelor of Computer Engineering & Computer Science**, *University of Wisconsin–Madison*, Madison, WI.

Experience

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

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

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

2014 **Hardware Design Verification Co-op**, *Extreme Engineering Solutions, Inc.*, Middleton, WI.

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

Awards & Honors

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*.

Organizations

University of Wisconsin–Madison

2015–2016 **President**, *Wisconsin Robotics*.

2015–2016 **Power & Control Systems Lead**, *Badger Robotic Mining Team*.

2015–2016 **Staff Writer**, *Wisconsin Engineer Magazine*.

2015–2016 **Project Lead**, *Garage Physics*.

2014–2015 **Treasurer & Embedded Lead**, *Wisconsin Robotics*.

2013–2014 **Embedded Member**, *Wisconsin Robotics*.

Volunteering

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

2013–2016 **Exhibit Coordinator**, *Engineering Expo*, Madison, WI.

2014–2016 **Exhibit Coordinator**, *Museum of Science and Industry*, Chicago, IL.

2013–2015 **Exhibit Coordinator**, *Wisconsin Science Festival*, Madison, WI.

2014 **Robot Design Judge**, *FIRST Lego League*, Madison, WI.

Teaching Experience

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

Coursework Sampling

Georgia Institute of Technology

Fall 2017 **Privacy Technology, Policy, & Law**, *Annie Antón & Peter Swire*.
Artificial Intelligence, *Thad Starner*.
Computer Vision, *James Hays*.

Fall 2016 **Human-Robot Interaction**, *Sonia Chernova*.
Smart and Connected Communities, *Ellen Do*.
Computing For Good, *Ellen Zegura & Beki Grinter*.

Skills & Abilities

Programming Bash, C, C++, Javascript, MATLAB, Python, *(Proficient)*
ARM Assembly, CSS, HTML, Java, Verilog. *(Familiar)*

Technical Embedded systems design and development, robot design and development, software development, analysis.

General Leadership, project management, collaboration, writing, teaching.

Projects

Software **Data Processing Pipeline for Machine Learning**, *IBM*.
- A self-led, 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*.
- Designed for in-house robotic reserach.

Mapping Justice, *Georgia Institute of Technology*.
- Developed for the Atlanta Legal Aid Society to visualize 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 to create music.

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**