

## Katherine Ann Scott

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CONTACT INFORMATION Katherine Ann Scott  
1701 Dexter Ave.  
Ann Arbor, MI, 48103 USA  
katherine.a.scott@gmail.com

Voice: (734) 358-0175  
Web: [www.kscottz.com](http://www.kscottz.com)  
Twitter: @kscottz  
Github: kscottz

OBJECTIVES I want to work with a community of researchers to put my computer vision and robotics skills to work building a better world.

EDUCATION **Columbia University - School of Engineering and Applied Sciences** 2011  
Master of Science in Computer Science with emphasis on computer vision.

**The University of Michigan College of Engineering** 2005  
Bachelor of Science and Engineering in both Computer and Electrical Engineering.

### PROFESSIONAL EXPERIENCE **SightMachine**

*Vice President of Research and Development*

**May 2011 to May 2013**

- Developed a significant portion of the [SimpleCV](#) python library. SimpleCV is an open source python framework for quickly developing computer vision and image processing applications.
- Designed custom computer vision applications for industrial and manufacturing customers covering such topics as meteorology, image recognition, temporal signal processing, and color space analysis. This process included everything from initial system design and specification all the way through final testing, validation, and deployment.
- Built and managed the SimpleCV open source community. This included validating user pull requests and bug reports on [github](#), answering question on our [help forum](#), managing our [Google Summer of Code](#) students, co-authoring our [O'Reilly publication](#) on SimpleCV, and producing SimpleCV talks and tutorials.

### **Cybernet Systems Corporation**

*Research Engineer*

**February 2005 to December 2010**

- Wrote the proposal for, won, managed, and contributed significant engineering work to four Phase I Small Business Innovative Research (SBIR) grants and two Phase II SBIR grants totaling nearly two million dollars in research funds.
- Developed a number of innovative software prototypes in the fields of computer vision, graphics, augmented reality and robotics. This included a Phase II augmented reality simulation system for PEO-STRI, a tablet augmented reality application for the Marines, and smart CCTV camera systems for the Army.
- Worked as a lead engineer, project manager, and primary investigator on various projects and engaged in recruiting, customer relations, business development activities.

### TECHNICAL SKILLS

I am adept at writing computer vision, graphics, and robotics software in Python, Java, C++, C#, C and a host of other languages on Linux, Mac, and Windows platforms using a variety of development tools and environments.

I have a strong interest in delivering computer vision and graphics applications via the web using WebRTC, JavaScript, and Emscripten/LLVM. I am also highly interested in using Python optimization tools to improve image processing speeds.

*For a complete list of publications, patents, and work history please see my [curriculum vitae](#).*