

# Marc Auger

Hardware & Software Engineer



[github.com/sosaysthecaptain](https://github.com/sosaysthecaptain)



<http://apple.co/2e0eD3Y>

1210 E 54th Street, Apt. 2 • Chicago, IL 60615 • 781-698-9974 • [mauger@uchicago.edu](mailto:mauger@uchicago.edu) • [marcauger.xyz](http://marcauger.xyz)

I'm a full stack mechatronics and software engineer, with experience developing mechanical and robotic systems, control electronics, firmware, and user interface software. I specialize in proofs-of-concept and getting prototypes running as quickly and cheaply as possible, but I also enjoy the second ninety percent of a project. I'm successful because I'm good at teaching myself and architecting complicated systems.

## EXPERIENCE

### LEAD ENGINEER, STEALTH-MODE METAL ADDITIVE MANUFACTURING STARTUP *Oct. 2014 - Present*

- Developed mechanical prototypes, including design and fabrication of precision robotic and optical systems.
- Developed firmware and machine interface software in C, Python, and JavaScript.
- Developed custom electronics: circuit design and PCB design, fabrication, assembly, and testing.

### DEVELOPER, SPACE TRADER iOS *June 2016 - Present*

- Recreated a classic 1980s (outer space merchant) role playing game for iPhone in Swift.
- Built massive, logic-intensive codebase from scratch, with reference to legacy codebases in C++ for Palm pilot and in Java for desktop.
- Updated the UI in a manner both completely faithful to the original experience and completely at home on the iPhone.
- Maintained and improved the app over six updates and counting, responding to bug reports and customer feedback.

### CO-FOUNDER & CEO, ISIS3D *January 2012 – October 2014*

- Led the engineering and design of the Isis One, the first prosumer 3D printer to directly compete with enterprise-level machines, featuring soluble support and dynamic bed leveling.
- Built and tested prototype and production units; Oversaw both in house and outsourced manufacturing processes to technical and quality specifications.
- Directed the development of the Isis One's precision-aligned dual extruder printhead, an unprecedented design that quadrupled reliability and achieved a 50% improvement in print speed.
- Spoke and demonstrated the printer at several demonstrations around the Chicago area and at MIT.
- Wrote marketing copy for the company's website.

## EDUCATION

**THE UNIVERSITY OF CHICAGO** Chicago, IL  
Bachelor of Arts with General Honors in Music *Sept. 2009 - Aug. 2011*  
*GPA: 3.5/4; Deans List every quarter*

**BARD COLLEGE**  
Music and Science Curriculum Annandale-on-Hudson, NY  
*GPA: 3.89/4* *Aug. 2006 - Dec. 2008*

## SKILLS & LANGUAGES

- Languages: Swift, JavaScript, C, Python
- Other technologies: Arduino & RasPi, Angular, Node, Express, MongoDB, image manipulation libraries, Git, Linux.
- Software: Onshape, SolidWorks, Upverter (electronics CAD package), Adobe Illustrator