David Logan Cummings

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OBJECTIVE

A multi-disciplinary role integrating technology and design to improve our interactions with our environment and each other.

EDUCATION

May 2007	*Bachelor of Science*	Electrical and Computer Engineering
	Johns Hopkins University	Baltimore, MD

EXPERIENCE

Nov. 2011 - Present

Co-Founder
Sensorstar Labs　　　　　　　　　　　　　　　　Long Island City, NY
- Designed and implemented a 64-channel LED control board with audio integration
- Aided in the development of a novel background segmentation software using OpenCV
- On-going investigations at the intersection of new media and physical computing

June 2011 - Present

Founder, Chief Stuckee
Mechanart Industries, LLC　　　　　　　　　　　　　　　mechanart.com
- Developed a business card sized wireless field visualizer
- Design and functional verification of a novel power tool accessory
- Mechanical design and prototyping of custom bicycle componentry

Nov. 2010 - Sept. 2011

Consulting Senior Engineer
Sensorstar, Inc.　　　　　　　　　　　　　　　　　Ellicott City, MD
- Systems Architecture design and team lead for a novel multi-mode wireless communications and data acquisition device
- Circuit analysis and debug for a high-speed audio interleaving systems
- Android application testing and development

Oct. 2008 - Oct. 2010

Systems Architect
Northrop Grumman ES　　　　　　　　　　　　　　　Linthicum, MD
- Evaluation and selection of mainstream-market driven high performance coprocessors – including requisite algorithm porting to VHDL and CUDA

SKILLS

Computer Languages	C, C++, Python, Bash, VHDL, CUDA, OpenCV, Ruby, LaTeX, Arduino, Processing
3D CAD	PTC Creo (formerly Pro/ENGINEER), Alibre Design, SketchUp
PCB Design	CadSoft Eagle
Simulation	Ansoft HFSS, Pro/Mechanica
Operating Systems	Linux (Ubuntu pref.), OS X, Windows XP/7
Fabrication	Welding (MIG, Stick, TIG(pref.)), Manual Machining
Human Languages	Native English, Conversational Spanish, Beginner Russian