

David Logan Cummings

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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

- System design, sensor prototyping, and processing development for a novel bio-sensing application
- Embedded lithium ion power circuitry design
- Designed and built an audio-synchronized 64-channel LED controller
- Aided in the development and testing of a virtual world conferencing application utilizing OpenCV for background segmentation

June 2011 - Present | *Founder, Chief Stuckee*
Mechanart Industries, LLC | mechanart.com

- Development of a business card sized wireless field visualizer
- Design and functional verification of a novel power tool accessory
- Mechanical design and prototyping of custom cycle components

Nov. 2010 - Sept. 2011 | *Consulting Senior Engineer*
Sensorstar, Inc. | Ellicott City, MD

- System architecture, power supply design, and team lead for a portable multi-mode wireless communications and data acquisition device
- OLED display integration and FPGA driver
- Circuit analysis and debug for a high-speed audio interleaving system

Oct. 2008 - Oct. 2010 | *Systems Architect*
Northrop Grumman ES | Linthicum, MD

- Evaluation and selection of mainstream-market driven high performance coprocessors – including algorithm work in C, VHDL, and CUDA

June 2006 - Sept. 2008 | *Junior Engineer*
Sensorstar, Inc. | Elkridge, MD

- PCB antenna, power supply, and firmware for a GPS tracking device
- Fast data collection system for an avionic INU

SKILLS

<i>Computer Languages</i>	C, C++, Python, Bash, OpenCV, Ruby, L ^A T _E X, <i>inter alia</i> as needed
<i>3D CAD</i>	PTC Creo (formerly Pro/ENGINEER), Alibre Design, SketchUp
<i>PCB Design</i>	CadSoft Eagle
<i>Simulation</i>	SPICE (LTSpice, Berkeley 3f5), Agilent ADS, Ansoft HFSS, Pro/Mechanica
<i>Operating Systems</i>	Linux (Ubuntu pref.), OS X, Windows XP/7
<i>Fabrication</i>	Welding (MIG, Stick, TIG(pref.)), Manual Machining
<i>Human Languages</i>	Native English, Conversational Spanish