# David Logan Cummings

+1-443-742-6564
www.wordtothebaker.com dave@mechanart.com


## 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
- 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
- Circuit analysis and debug for a high-speed audio interleaving system
- 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 algorithm work in C, VHDL, and CUDA

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

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

## Skills

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| *Computer Languages* | C, C++, Python, Bash, OpenCV, Ruby, LaTeX, *inter alia* as needed |
| *3D CAD* | PTC Creo (formerly Pro/ENGINEER), Alibre Design, SketchUp |
| *PCB Design* | CadSoft Eagle |
| *Simulation* | SPICE (LTSpice, Berkeley 3f5), Agilent ADS, 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 |