

Kyle Vogt

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Experience

Justin.tv - Founder and VP Engineering

Nov '06 - Present

Designed and implemented a live video publishing and distribution network in Python from the ground up. Currently serves millions of streams per month. Built a backpack-sized mobile video transmitter capable of high quality video streaming using multiple EVDO data connections.

SimpleTXT - Founder and CEO

May '06 - Nov '06

Built a web-based control panel for bulk SMS messaging. Programmed a message processing server in MySQL and PHP. Manage two other employees.

Brontes Technologies (Acquired by 3M) - Hardware Intern

May '06 - July '06

Developed automated testing software for a prototype realtime 3d oral-imaging system. Wrote image processing programs to detect and analyze CMOS sensor noise and correct using lookup tables.

Consulting - The Klapper Institute

June '05 - Present

Designed a custom, microcontroller-based product. Built, programmed, and tested several prototypes, then outsourced the manufacturing of over 100 units to an overseas plant.

Panasonic Boston Laboratory - Robotics Intern

June '05 - Jan '06

Built a fully-autonomous robotic wheelchair. Programmed a single board computer and a custom-made sensor interface board. Wrote a machine vision library now in use by several research groups.

Irobot - QA Intern

June '04 - Jan '05

Constructed an automated factory test machine for the Roomba Robotic Vacuum. Designed and built a custom embedded system to control motors, sensors, and other actuators via USB.

Projects

- ◆ **Safecracking Robot** - Built a USB controlled robot which successfully opened a high-security safe
- ◆ **Autonomous Tour Guide** - Received a \$30K from MIT to build a tour robot with machine vision
- ◆ **Pulsed RADAR** - Built a height sensor for the ISN soldier design contest, received Boeing Award
- ◆ **Active Gimbaled Sensor Platform** - Built a 3-axis active gimbal controlled by an FPGA
- ◆ **Battlebots** - Constructed two 210 lb. radio-controlled fighting robots with hydraulic weapons
- ◆ **Portfolio** - More projects at <http://web.mit.edu/kvogt/www>

Skills

Software - Programming in Python, Ruby, C, C++, Java, Javascript, and PHP languages. Experience building and scaling database-backed web applications.

Hardware - Design and development of analog and digital systems. Programming on AVR, PIC, and Xilinx platforms. Management of PCB fabrication, automated assembly, and manufacturing.

Education

Massachusetts Institute of Technology

Aug '04 - Present

Candidate for BSEE in 2008.

Classes include digital and analog design, calculus, linear algebra, electro-magnetics, computer architecture, computer programming, and management.