JS Hardware

by Scott Preston

About Me

- Live in Columbus, Ohio.

- Been doing robotics for last 15 years

- Wrote a few books on robotics and mobile/js/html5.

- Practice Lead at ICC focusing on JavaScript

My JS Powered Hardware

- J.A.R.V.I.S - My house.

- Junior - My Robot Helper

- Mark 1 - My Suit

J.A.R.V.I.S.

- Full disclosure - Only partly JavaScript

- Java - Speech Recognition

- Java - Computer Vision

- Bash - Scripts/Cron/Etc

About J.A.R.V.I.S.

- Ubuntu Server 14.04

- Core i5 / 16GB Ram / 240GB SSD

- 1GB Ethernet / 1 Bluetooth

- 4 USB Serial Ports

- 6 Slave Raspberry PIs w/LIRC & Temp Sensors

- 9 Network Cameras

- 1 Windows Machine for Skype

- @jarvispreston (Twitter Handle)

J.A.R.V.I.S. - Non Node

- UI/REST (PHP/MySQL)

- Speech Recognition (Java)

- Text To Speech (Shell)

- Computer Vision (Java)

- Scheduling (CRON)

J.A.R.V.I.S. - Node Systems

- SSC (Node) - Servos

- X10 (Node) - House Controls

- Event Server (Node) - Async Event Server w/ Rabbit MQ

- Robot Status Service (Node) - Monitoring Amazon SQS

Junior

- Raspberry Pi - Model B

- WIFI Network Camera

- Serial Servo Controller

- 12VDC Power System

- 2 NPC Robotic Gear Motors w/IFI Speed Controls

Junior JS Systems

- UI/Remote Interface

- SSC - Node

- Twitter Bootstrap/JQuery/Pure JS (minimal frameworks)

Code Examples

Thanks!

@scottpreston
github.com/scottpreston