

Jordan C. Parsons

jordancparsons@gmail.com | www.jordanparsons.com

EXPERIENCE

Technical Director | Iontank Pittsburgh, PA May 2019 - Current

Oversaw design, production, and installation of all aspects of software and hardware across multiple simultaneous projects. Led a small team of developers to complete work on time and in complex circumstances. Participated in weekly senior management meetings with a focus on organization, personnel, and task management. Additionally acted as a full-time design and production asset, as well as completing assorted additional management responsibilities.

Lead Developer | Iontank Pittsburgh, PA May 2015 - May 2019

Principal software and hardware developer for multiple simultaneous projects. Projects consisted of a mix of software, custom electronics, and fabrication with a wide range of spatial and time constraints. Responsibilities include oversight and design of large scale interactive lighting displays, technical integration, PCB design and production, concept development, planning, budgeting, software development, and installation.

Digital Fabricator / Architect | Antimodular Research Montreal, QC May 2013 - May 2015

Digital Fabricator & researcher for artist Rafael Lozano-Hemmer. Design, fabrication, and installation of several interactive art pieces. Extensive fabrication, electronics design, and programming done both in office and on-site from concept to installation.

Researcher | STUDIO for Creative Inquiry Pittsburgh, PA May 2012 - May 2013

STUDIO for Creative inquiry researcher under Golan Levin. Designed and programmed a series of applications to pair fabrication and digital form generation.

Monitor | dFab Lab Carnegie Mellon University Pittsburgh, PA August 2009 - May 2013

Instruction and supervision in proper practices, file preparation and equipment operation. Digital Fabrication equipment operation, upkeep, troubleshooting, and repairs.

PROJECTS

Digital Campfire | Iontank April 2016 - Current

The campfire is an interactive art object which integrates 56 android phones, controllable lighting, digital fabrication, and custom software to act as a conversation centerpiece. Worked on the project from concept development to on-site installation. Responsible for the LED lighting design and fabrication as well as writing a custom android app to drive the experience. The application was written from the ground up to sync all 56 phones within a few milliseconds of each other as they displayed custom content. The campfire was integrated into the Google Assistant platform to allow for voice control. It is currently operational in 5 sites in 3 countries.

The Grove | Iontank July 2017 - November 2018

The Grove represents the largest project undertaken at Iontank to date, comprised of over 7 exhibits done for an executive briefing center in California. Projects included a 53' long hallway which responds to visitor motion; a set of three 14' diameter internally lit tree rings, and 1000 custom LED boards placed in a ceiling to simulate the night sky. These projects involved electronics, software, and digital fabrication all being closely integrated. Responsible for all electronics design, integration, planning, ordering, and software management. Involved in the projects from concept development to installation on site. Oversaw UL field inspection and certification.

ZeroScan | Personal April 2020

ZeroScan is a network service discovery tool for macOS and iOS on the App Store. It uses built-in API's to scan your network for devices broadcasting zeroconf (mDNS, DNS-SD, Bonjour) services. It was built to fill a common use case, learn Swift, and learn the App Store.

SKILLS | Software, Fabrication & Prototyping

Project Management	Project Management, Product Ownership, Scheduling, Expense Tracking, Task Management, Personnel Management, TeamGantt, Smartsheets, Trello, Office
Software Development	Python, Java, Android, C#, Unity, Grasshopper, C, Swift, C++, Shell Scripting, Processing, openFrameworks, Javascript, HTML
Digital Fabrication & Design	3-Axis CNC Mill, 3D Printing, Laser Engraver, Vaccuformer, Basic Woodwork, ABB IRB 4400 & IRB 1600 Industrial Robots, Rhino3D, Fusion360, Adobe Creative Suite
Electronics Design & Assembly	PCB Design, Layout and Fabrication, Large Scale LED Control, Eagle, Soldering, Designing testing platforms, AVR, Arduino, Teensy, Beaglebone, Motor Control, Audio playback & amplification, project interfaces, Familiarity with I2C, SPI, CAN, RS485

TALKS / 2019 "Code & Fabrication" - Abstractions II Pittsburgh, PA

WORKSHOPS / 2017 Digital to Physical - Anderson Ranch. Week long workshop on grasshopper and digital fabrication.

PUBLICATIONS / 2013 Werner, Liss C. [En]Coding Architecture - the Book. Pittsburgh: CMU SoA, 2014. Print.

EDUCATION 2013 Carnegie Mellon University | B. Arch