

Jordan Réjaud

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Education



M.S. IN MECHANICAL ENGINEERING | MAY 2013 | CARNEGIE MELLON UNIVERSITY

PITTSBURGH, PA

- Focus: Mechatronics and Robotics



B.S. IN MECHANICAL ENGINEERING | MAY 2012 | LEHIGH UNIVERSITY

BETHLEHEM, PA

- Graduated with High Honors
- Minors: Aerospace Engineering, Anthropology, and Business

Projects

GRAVITY SIMULATION APPARATUS FOR MOON ROVERS

- Designed, built, and tested gantry position tracking system for gravity simulation device in order to simulate moon level gravity on Earth to test moon rover.

ROBOTIC PROSTHETIC ARM

- Designed, built, and tested human-proportioned 6 degree of freedom robotic prosthetic arm.

ANDROID APPLICATIONS

- [CleverObjects](#) is a smartwatch app to let people control switches in their home using their voice/ smartwatch
- [Munchkin Companion](#) is an unofficial companion app for the popular card game Munchkin by Steve Jackson
- [Charge Beam](#) is a silly app which charges up a "laser beam" on your phone when you press the charge button on your Android Wear watch.

ROBOTIC FRISBEE LAUNCHER

- Conceived concept, designed, and machined robotic Frisbee launcher which shoots multiple Frisbees at colored targets without human intervention

PERSISTENCE OF VISION (PHENAKISTOSCOPE)

- Conceived concept, designed, built, and tested persistence of vision interactive exhibit for the Pittsburgh's Children's Museum.

TO READ MORE ABOUT MY ENGINEERING PROJECTS, VISIT
[HTTP://WWW.JORDANREJAUD.COM/PROJECTS.HTML](http://www.jordanrejaud.com/projects.html)

Professional Experience

RESEARCH ENGINEER | USAA | SUMMER 2012 - PRESENT

- Research Engineer at USAA's Innovation Lab. Research and Development on any technology which can benefit USAA or its members.
- Current projects include "The Internet of Things", Telematics and others that I am not at liberty to disclose.

PROCESS ENGINEERING INTERN | SAINT-GOBAIN | SUMMER 2012

- Designed, purchased parts, coordinated technicians, and supervised physical implementation of Automated Waste Acid Management System to neutralize acid and prevent acid overflow onto the floor or backflow into external stack
- Proposed a process improvement and wrote associated software to streamline communication between floor operators and upper management in the plant in order to keep people accountable for their actions (or lack of)

RESEARCH INTERN | BDSI | SUMMER 2011

- Research Project: Effects of polymer molecular orientation and biodegradation on stem cell differentiation
- Conducted tests on effects of Vibration Assisted Injection Molding on polylactic acid life cycle for tailored life-time polymer implant applications

Skills & Abilities

PROGRAMMING LANGUAGES (EMBEDDED SYSTEMS, ANDROID, AND WEBSITE DESIGN)

- C, C++, RobotC, Matlab, Visual Basic for Applications, Python, Processing, Java (Android), HTML, CSS, jQuery, SMART

ELECTRONICS

- AVR Microcontrollers (Atmel Studio, AVR Dude), Embedded Systems, Circuit and PCB Design, Arduino, Raspberry Pi

COMPUTER AIDED DESIGN

- SolidWorks, SketchUp, Rhino, I-DEAS, AutoCAD, Algor

MACHINING

- Lathe, Mill, 3D Printer, Laser Cutter, Injection Molding Machine, CnC (Neophyte)

MULTIMEDIA EDITING AND DESIGN

- Final Cut Pro, Sony Vegas, Paint.Net, GIMP