

# ARTHUR J PETRON

410 Memorial Drive 333F Cambridge MA 02139

petron@mit.edu 717.321.5985

## Education (MIT – Cambridge, Massachusetts)

Candidate for Master of Science in Media Arts and Sciences  
Bachelor of Science in Mechanical Engineering

Expected June 2010  
Received June 2008

**Relevant Coursework:** Product Design Processes (Ethics, Specification, Customer Needs Analysis, Human Factors, Benchmarking), Feedback Control Systems, Urban Device Integration Engineering, Manufacturing Processes.

## Work Experience

### Idealab – Prototype Team

Pasadena, CA, January 2008  
(prototyping, design, systems modeling, CAD)

- Designed and prototyped new low cost systems for solar concentrators.
- Aided in the redesign of a 3D printer element in order to increase the part detail.

### MIT Media Laboratory – Smart Cities

Cambridge, MA, September 2007 to present  
(programming, part design, assembly, machining, everything)

- Fabricated display models for the Milan Motor Show which debuted the Roboscooter, a folding, electric scooter designed for urban situations.
- Worked to build a working prototype of the Roboscooter.

### Apple Inc. – Product Design

Cupertino, CA, Summer 2007  
(part integration, wireless technology, CAD)

- Developed software that defines a relative scale wireless sub-system test.
- Designed prototype and production level parts for various products.
- Coordinated suppliers and third-party researchers with current projects.

### MIT Media Laboratory – Viral Communications

Cambridge, MA September 2004 to May 2007  
(programming, enclosure design and fabrication, technical advising)

- Created plastic and metal electronics enclosures for custom electronics packages.
- Wrote simple TCP and UDP overlays in order to make them capable of handling more complicated network packet data for use in viral systems.

## Skills

### Software

Linux, Mac, Windows, SolidWorks, AutoCAD, NX3, NX4, Rhino, Photoshop, Matlab, MathCAD, MS Office, CorelDraw, MasterCAM, OMAX Make and Layout

### Programming Languages (in order of expertise)

Python, Perl, C++, C, HTML, Javascript (plus AJAX), Java, Cocoa, LOLCode

### Machines and Tools

Mill, Lathe (both manual and CNC), General Shop Machines, 3D printers, OMAX Water-Jet, Laser-Cutter (Universal and Trotec), Welder (mig, tig), Vacuum Former.

### General Skills

Residential Electrical Wiring, Barn/Garage Construction, Large Vehicle Operation (Tractors, Backhoes), Tree Felling

## Interests

Caving, Climbing (top-rope and bouldering), Robotics, Locksmithing, Running, Hiking, Camping, Interior Decoration, Wood Carving, Gourmet Cooking, Poi, Bioinformatics, Origami