

# CYRUS VAFADARI

706 · 587 · 3715 ◇ CYRUSV@ALUM.MIT.EDU  
2153 MASSACHUSETTS AVE ◇ CAMBRIDGE MA 02140

## EDUCATION

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### MIT

2012

B.S. Nuclear Science and Engineering, 4.6/5.0

## EXPERIENCE

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### Sookbox, LLC

2011 - 2014

*CTO*

*Cambridge, MA*

- Raised \$1.2M to develop a home media streaming and playback solution
- Designed and wrote back-end in primarily Python (rewritten from PHP)
- Managed team of 5 engineers

### Compact Muon Solenoid, LHC, CERN

2010

*Research Scientist*

*Geneva, Switzerland*

- Observation of Long-Range, Near-Side Angular Correlations in Proton-Proton Collisions at the LHC
- Predicting probability of piled-up vertices as a function of multiplicity in proton-proton collisions
- Analyzed over a billion collisions and Monte Carlo simulations in a C++ framework
- Used Condor for grid computing
- Discovered evidence of quark-gluon plasma in high-multiplicity p-p collisions, never before observed
- Project publication: doi:10.1007/JHEP09(2010)091s

### Dept. Molecular Biology, Mass. General Hospital

2009-2013

*Research Scientist*

*Boston, MA*

- Third author: "Radiation Resistance of Biological Reagents for In Situ Life Detection"
- SETG, MIT/Harvard group designing and constructing a life-detection device to work on Mars
- Designed and executed experiments simulating cosmic radiation on a flight to Mars
- Irradiated over \$40,000 of reagents with over 10 Gy of radiation from 5 different types of radiation
- Project publication: 10.1089/ast.2012.0869

### Barrett Technology

2009

*Mechanical Engineering Intern*

*Watertown, MA*

- Implemented revision control system for the company's firmware
- Designed in Solidworks and prototyped part for WAM robotic arm

## PATENTS

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### Pending

Filed January 2014

*Co-Inventor*

- Method and System for Providing Digital Content. US PCT/US2014/010243.
- Digital Content Connectivity and Control via a Plurality of Controllers that are treated as a Single Controller. US 14/147,397.
- Digital Content Connectivity and Control via a Plurality of Controllers that are Treated Discriminatively. US 14/149,541.
- Configuring, Networking, and Controlling a Plurality of Unique Network-Capable Devices. US 14/149,726.