

CYRUS VAFADARI

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EDUCATION

MIT

2012

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

EXPERIENCE

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)
- Designed platform for multi-node architectures, remote message calling, and data marshalling
- 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

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.