Banti Gheneti

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Education

Massachusetts Institute of Technology **June 2017**
Candidate for a Bachelor of Science in Electrical Engineering and Computer Science

Professional Experience

Vecna **January 2016**
Robotics Software Engineering Extern
- Rewrote a plain javascript task graph tool using React.js and Redux
- Remodeled a Backbone.js view in React.js and presented a plan for transitioning a whole app

Red Hat **May – August 2015**
Systems Management Intern
- Configured CI pipelines in a Jenkins environment to trigger and run tests, using Jenkins Job Builder
- Wrote bash and ansible scripts to build relevant docker images and automate the testing of software

MIT Sloan School of Management **July – October 2014**
Data Research Intern
- Created scripts to obtain and organize data on 370+ project researcher citations and reputations, using the Scopus REST API
- Analyzed researcher and project indicators to determine correlations between project characteristics and online platform fundraising success, using Stata

Extracurricular Projects

Construction Project Leader
- Directed a multidisciplinary team during the planning and design process of a three story lumber fort
- Interfaced with campus safety representatives and contractors to satisfy building code
- Coordinated teams of students during the the safe construction of the fort using power tools

Mobile Autonomous Systems Lab (MASLAB) Competition 2015; 2nd place
- Devised and implemented data structures and algorithms for a robot in C++ to detect and locate target cubes, walls, and environment features on the playing field from a webcam input
- Developed firmware for GPIO and SPI-based peripherals

Remote Radiation Monitoring Network; MakeMIT 2015 3rd Place in Finals
- Engineered code in C to record a leaf node's environmental variables and transmit them to the base node using XBee radio modules
- Parsed the serial output using a node.js server running on the Raspberry Pi base node and transmitted json objects with sensor cube data to the central server
- Made a web portal hosted by the central server for displaying sensor measurements

Relevant Courses

6.819 – Advances in Computer Vision
- Explored a range of image features,, transformations and strategies for object recognition
- Used particle swarm optimization to determine hand pose from synthetic shadow data for the final

6.034 – Artificial Intelligence
- Created and performed operations on decision trees, Bayes nets, neural nets, and SVMs to classify complex data sets and make intelligent decisions

6.046 – Design and Analysis of Algorithms
- Applied algorithms on a variety of data structures to efficiently solve a wide range of search, sort, numeric, graph, network flow and hash-based computational problems
- Derived problem complexities

6.005 – Elements of Software Construction
- Developed code collaboratively using the Git version control system
- Learned development and testing strategies for writing concurrent code in Java

6.003 – Signals and Systems
- Analyzed discrete and continuous-time signals and systems using Fourier, Laplace and Z transforms

Currently Enrolled:
6.141 – Robotics: Science and Systems I
6.302 – Feedback Control Systems

Applicable Skills

General Programming – Python, Java, Unix, Matlab, ROS
Web Programming – Javascript, HTML5/CSS, Jquery, Node.js, Meteor.js
Spoken Languages – English, Dutch, German**,** Oromo, French