Ozgur Altinok

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- Software Developer for High Energy Physics Data Analysis and Simulations
- Designing, implementing and maintaining technical computing tools (both API and GUI) for 4+ years
- Providing support for Linux-based systems used in MINERvA Experiment for Online Data Processing
- Expert Knowledge on MATLAB, C++ and ROOT(High Energy Physics Data Analysis Framework)
- Member of two major International High Energy Physics Collaborations: OPERA and MINERvA

EXPERIENCE

MINERvA: Neutrino Scattering Experiment

Graduate Research Assistant (2011 - Present) *Tufts University – Medford, MA*

- Developing a C++ package that uses grid computing for processing raw data in MINERvA Experiment
- Developed a high statistics data analysis package in C++ for MINERvA Analysis Framework
- Designed and maintained a MATLAB toolbox with GUI, simulating neutrino oscillations
- Provided thorough documentation for MINERvA Analysis Framework

Nearline and Control Station Expert (2013 - Present) *Fermi National Accelerator Laboratory – Batavia, IL*

- Providing Expert Support for Nearline Machines used in online data processing and Control Stations
- Built on-site and remote Control Stations for MINERvA Detector at Fermilab and Tufts University
- Implementing new features on Control Stations for more user-friendly interface

OPERA: Neutrino Oscillation Experiment

Graduate Research Assistant (2009 - 2011) *Middle East Technical University – Ankara, Turkey*

- Assembled and maintained a High Speed Microscope used for detecting particles inside emulsion films
- Lead and trained a team of 5 involved in building the First Emulsion Scanning Laboratory in Turkey

Visiting Research Collaborator (Summer 2009 and 2010) *Gran Sasso National Laboratory – L`Aquila, Italy*

- Worked with a team of scientists and engineers at the largest emulsion scanning laboratory in Europe

Visiting Research Collaborator (May 2010) *Joint Institute of Nuclear Research – Dubna, Russia*

- Guided Dubna Team about constructing an Emulsion Refreshing Chamber

EDUCATION

Ph.D. in Physics, Expected 2016 *Tufts University - Medford, MA*

- Thesis Title: Δ^{+} Production in μ^{-} p π^{0} Reactions of the LE Exposure

Post. Bac. Minor in Computer Science, Expected 2015 *Tufts University - Medford, MA*

M.S. in Physics, 2014 *Tufts University - Medford, MA*

M.S. in Physics, 2011 *Middle East Technical University – Ankara, Turkey*

- Thesis Title: High-Speed Automatic Scanning System for Emulsion Analysis in the OPERA Experiment

B.S. in Physics, 2009 *Middle East Technical University – Ankara, Turkey*