



Travis Whitlow
Senior
Alabama A&M University
Major: Mechanical Engineering

Faculty Advisor: Dr. Z. T. Deng

Program:
Research Alliance in Math & Science

Email: whitlowt@ornl.gov
Home: traviswhitlow@yahoo.com

Research Area: Parallelization of Nonlinear Application Code

One of the most important problems concerning epilepsy is finding ways to accurately predict seizures in a timely manner before any epileptic activity occurs. Excellent work has been done to achieve this and yielded great results. The data from this work will be analyzed and various values of the governing parameters will be tested to obtain a desired hit rate. This involves conversion of the existing research-class FORTRAN code, which does nonlinear statistical analysis of time-serial data, to a parallelized form to run on the ORNL Institutional Cluster.

Research Mentor:

Dr. Lee Hively
Cyber Security and Information Infrastructure Research
Computational Sciences and Engineering Division
Oak Ridge National Laboratory

(865) 574-7188
hivelylm@ornl.gov