Ishtyaq M. Habib

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Objective

Obtain a summer position supplementing interests. Target program includes intriguing collaborative technical problems, and networking opportunities.

Education

State University of New York at Geneseo, Geneseo, NY (Analytical Physics)
Junior, Expected Graduation in Spring 2016

Cornell University, Ithaca NY (Object-Oriented Programming and Data Structures Algorithm Design)

Rochester Institute of Technology, Rochester, NY (Digital Design and Production Digital Electronics)

Pittsford Mendon High School, Pittsford, NY
Graduate, June 2012

Honors/ Awards

Exceptional Commitment to Learning Award – Technology● Honor Roll ● PTSA Technology Award ● College Board AP Scholar ● Community Service Award

Relevant Experience

Institutional Research Assistant August 2014 – Present
Work with Dr. Julie Rao, Director of Institutional Research at SUNY Geneseo, to complete internal and external requests for information, submit required state, federal, and publisher's surveys, assist in the collection of survey data, i.e. NSSE (National Survey of Student Engagement), SOS (Student Opinion Survey), and prepare and analyze data files using SPSS.

Astrophysics Research Assistant May 2014 – Present
Work with the Dr. Anne Pellerin, at SUNY Geneseo to quantify the dissolution rate of young stellar clusters. Using a Friend of Friend Algorithm on Hubble space telescope data a technique was developed isolating young stellar population. The technique was then implemented in IDL where modeling and analysis also took place. This included the implementation of bilinear interpolation on a field of luminosity class versus temperature among other things.

Electrathon America Competitor September 2010 – June 2012
Engineer a car to run on batteries to achieve the greatest distance possible within an hour. Worked on the car's electrical systems and regulated the power of the batteries with a controller in order to precisely adjust how the throttle would pull power from the batteries. Created a zone that would take the frantic adjustments of a driver and smooth them in order to reduce current spikes, which quickly deplete the batteries. Also was 2011 team driver, achieving furthest distance traveled in one hour during competition.

Computer Skills

Microsoft Office ● AutoDesk Inventor ● Adobe Acrobat ● Adobe Creative Suite ● Java ● Python ● Eclipse IDE ● HTML5 ● CSS3 ● JavaScript ● PHP ● SQL ● Ruby ● Arduino ● Matlab ● Mathematica ● LaTeX ● IDL ● SPSS ● Minitab ● R

Activities

Hall Council, Model UN, SMIF (Investment Fund), Intramural Soccer, Intramural Basketball