Ishtyaq M. Habib

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EDUCATION

State University of New York at Geneseo **Expected May 2016**
Bachelors of Arts in Physics & Mathematics *Geneseo, NY*
GPA: 3.0/4.0
Relevant Coursework: Numerical Approximations, Computational Complexity, Theory of Computability, Algorithms & Data Structures (Cornell University), Digital Electronics (Rochester Institute of Technology)

EXPERIENCE

TrainSmart (www.trainsmart.biz) **January 2015 – Present**
Founder/Product Manager *Rochester, NY*

- Founded a startup developing a toilet training system for children with autism in collaboration with the University of Rochester BME department and three MBA students
- Awarded $10K from the NY Business Plan Competition for business plan pitch and go-to-market plan
- Designed, built, and maintained a responsive website for potential customers/partners with HTML, CSS, and JS
- Led a team of engineers, industrial designers, pediatricians, clinical study coordinators, and marketing managers to build and market a commercial grade product ahead of schedule, within 90 days
- Identifying beta customers and conducting market research by surveying trial users of the device

Department of Physics & Astronomy - SUNY Geneseo **May 2014 – Present**
Astrophysics Research Assistant/ Laboratory Instructor *Geneseo, NY*

- Instructed/tutored/mentored over 100 students in laboratory techniques
- Worked with the Dr. Anne Pellerin to quantify the dissolution rate of young stellar clusters, providing essential observational data to demonstrate the acceptability of theoretical claims of how the universe ages
- Developed a technique to isolate young stellar populations by implementing HOP, a friend of friend algorithm, in C
- Wrote IDL code to analyze over 10,000 stars in Hubble Space Telescope data and model their dissolution rate
- Built an IDL extension to implement bilinear interpolation in CHORIZOS**,** a popular multi-purpose Bayesian code library, in order to interpolate physical parameters from a field of luminosity class vs. temperature

Institutional Research - SUNY Geneseo **August 2014 – May 2015**
Institutional Research Assistant *Geneseo, NY*

- Developed logical and physical database descriptions for IBM SPSS databases of prospective students, current student, alumni, and academic departments with Dr. Julie Rao, Director of Institutional Research
- Wrote SPSS Syntax to complete internal and external requests for information
- Provided ongoing statistical analyses in areas such as student-body profile, student academic performance, department profiles, and faculty performance
- Interpreted data on university wide elements, such as diversity, faculty utilization, department graduation rates, international student-body makeup, and study abroad/internship participation
- Reported to College Board, NSSE (National Survey of Student Engagement), and Geneseo's Student Opinion Survey
- Maintained Information Security in accordance with FERPA regulations.

ACHIEVEMENTS

New York Business Plan Competition Award **April 2015**

- Awarded Undergraduate Excellence in Energy for presenting pelleted switchgrass as an alternative energy source
- Selected for the award from a pool of 20 state finalist teams from top universities across New York State
- Designed technical composition of switchgrass pellets to optimize net heating value vs. ash composition
- Resolved manufacturability problems regarding pellet brittleness
- Validated market scarcity by interviewing sourcing agents at home improvement stores, and pellet stove owners

SKILLS

Familiar Languages

- JavaScript, ReactJS, React Native, HTML, CSS, PHP, SQL, Java, Python, C#, Mathematica, Matlab, Arduino (C/C++)

Familiar Tools

- Git Version Control, Unity, Autodesk Inventor(CAD), Photoshop, Excel

Qualifications

- US Citizenship