

Tiasha Joardar

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- OBJECTIVE**
- Internship opportunity in preparation for career in technology oriented firm
- EDUCATION**
- First year student in **McCombs School of Business** at **University of Texas, Austin**
 - Coursework (AP = Advanced Placement)
 - Mgmt Info Systems Microeconomics Advanced Calculus
 - AP Physics AP Computer Science AP Calculus BC AP Statistics
 - AP English Literature AP English Language AP Economics AP US Gov and Politics
- EXPERIENCE**
- **Conducted research** on development of high efficiency solar cells with adaptive thermoelectric self-cooling (2015 - 2016)
 - Developed and implemented a novel duty-cycle based solar cell temperature control mechanism that uses a portion of a cell's own power to drive thermoelectric cooling modules mechanically integrated into the solar panel
 - Wrote c code needed to program a microcontroller that adaptively adjusts duty cycle based on difference between solar cell and ambient temperatures
 - Designed and assembled switching circuit including gate drive signal generator
 - Completed mechanical and thermal design and assembly of self-cooled solar cell
 - Performed extensive data acquisition and statistical measurements to demonstrate significantly improved power output from self-cooled unit
 - Performed cost modeling and analysis to demonstrate lower cost per watt
 - Exhibited project at **2016 National Maker Faire** in Washington, DC
 - Completed **Summer Scholars Internship at University of Texas, Dallas** (2014)
 - Nominated as one of eight students from entire school district to participate
 - Worked with graduate students on mechanical engineering projects, specifically on the use of nanotubes in water heating (advisor: Dr. Fatemeh Hassanipour)
 - Co-author on research paper resulting from this work
 - Completed **Plano Mayor's Internship** (2015) at **NTT Data, Inc.** (Nippon Telegraph and Telephone)
 - Worked on many marketing initiatives and projects for the company, made contacts throughout the business and gained real world experience in the areas of Marketing, HR, and Operations
 - Worked closely with NTT's mobility team in Bangalore, India to develop a mobile app for use by the CEO's office for client tracking
 - Became familiar with CSS3, HTML5, JavaScript, and JQuery Mobile
 - Selected to represent interns on television interview with Mayor of City of Plano
 - **Texas Governor's Science and Technology Champions' Academy (2015)**
 - Invited for excellence in Science Fair, attended college-level STEM courses
- HONORS**
- Received **National Merit Scholarship**, 2016 (awarded annually to 0.5% of high school graduates)
 - Numerous awards at Science Fairs (partial list given below)
 - **Best in Energy category and 1st place** at **Intel International Science and Engineering Fair (ISEF)**, 2016
 - **IEEE Foundation President's Award** at **Intel International Science and Engineering Fair (ISEF)**, 2016
 - 1st place award in Energy category at Texas Science and Engineering Fair, 2016
 - 1st place in Energy category and Grand Prize runner-up at Dallas Regional Science and Engineering Fair, 2016
 - 2nd place in Energy category at Texas Science and Engineering Fair, 2015
 - 3rd place in Energy category at Dallas Regional Science and Engineering Fair, 2014
 - **Broadcom Masters Semifinalist**, 2012
 - **AP Scholar with Distinction** for high scores in AP exams
 - Highest score at Texas Visual Arts Scholastic Event on all pieces, 2014 and 2013

EXTRA-CURRICULAR

- **President and Founder of Plano West Model United Nations Club**
 - Organized and led group of students through scrimmages and competitions
- **Officer of Plano West LASER (Science Fair) Club**
 - Helped organize science fair trips, spending, and events throughout the year
- **Member of Leadership Council of Plano West Computer Club**
 - Participated and helped organize weekly meetings, contests, competitions, etc.
- **Officer of Plano West Environmental Club**
 - Organized events and cleanups throughout the year at school and in community
- **Member of Shepton High School Mock Trial**
 - Worked on court cases as elected lawyer, competed in regional events, attended legal workshops

COMMUNITY SERVICE

- **Member of National Honor Society, 2011 – present.**
 - As a member of the **National Honor Society**, volunteered at several local organizations such as food banks, blood drives, nursing homes, etc. (150+ hrs)
- **Member of North Texas Youth Honor Society.**
 - Taught Math to elementary school students as part of volunteer programs run by local organizations (Sun Ray Tutoring). (2012 – present) (60+ hrs)
- **Volunteer for Heroes for Children 5K and Fun Run (2011-present).**
 - Helped encourage runners, organize plaza events, and actively volunteers for Children’s Medical Center (30 hrs)
- **Officer of the Plano West Environmental Club**
 - Helped with community events and attended numerous school and community cleanups. (2014-present) (20 + hrs)