**Mehul Modi**

Jersey City, New Jersey 07307 **C:** mehulmodi2@gmail.com

**EDUCATION**

Dr. Ronald E. McNair Academic High School, Jersey City, New Jersey

Expected Graduation Date: June 2017

**AWARDS AND ACADEMIC HONORS**

AP Scholar Award  **Present**

National Honors Society **2015 - Present**

ASU Rob and Melani Walton Sustainability Solutions Intel Science & Engineering Fair - Finalist **2016**

U.S. Stockholm Junior Water Prize - Regional Award **2016**

ASU Walton Sustainability Solutions Award **2016**

Hudson County Science Fair - Silver Medalist **2016**

American Meteorological Society Award **2015**

Hudson County Science Fair - Gold Medalist **2014 & 2015**

**RESEARCH/LABORATORY EXPERIENCE**

**Science Research Program** **2013 - Present**

* *2013 - Conducted an experiment examining the effects of ocean acidification on foraminifera.*
* *2014 - Established an independent research project studying the production of microbial electricity in varying soils.*
* *2015 - Examined the effect and removal of water toxins from aquatic environments on ghost shrimp, by using systems of filtration as well as an enhanced version of photocatalytic processes.*
* *2016 - Developed a novel (microwave based) approach to fabricate tin phosphides for use in Li-ion batteries.*

**CORE COURSES**

AP Physics C (Calculus-based) **Fall 2016**

AP Calculus BC **Fall 2016**

AP US Government & Politics **Fall 2016**

AP English Language & Composition **Fall 2016**

AP Statistics **2015 - 2016**

AP Biology **2015 - 2016**

AP Physics 1 (Algebra-based) **2015 - 2016**

AP Chemistry **2014 - 2015**

AP World History **2014 - 2015**

**WORK/VOLUNTEER EXPERIENCE**

**Pediatric Volunteer, Muscular Dystrophy Association, Hardwick, NJ Summer 2015 - Present**

* *Lived with and assisted a cohort of toddlers and adolescents with their physiological, social, and cognitive needs*
* *Cared for a school-aged male with Duchenne Muscular Dystrophy 24/7*
* *Assisted adolescents in completing ADLs and transfers (i.e. from scooter, bed, seat, toilet, shower chair, wheelchair)*

**Volunteer, The Hoboken Shelter, Hoboken, NJ Summer 2015**

* *Assisted in preparing and distributing meals to the local homeless community*
* *Provided assistance in establishing events and fundraisers for the shelter*

**ACTIVITIES/MEMBERSHIPS**

**Researcher**   **2013 - Present**

* *Dr. Ronald E. McNair Academic High School Science Research Program*
* *Rutgers University, Newark Under the Guidance of Dr.Huixin He*

**Member** **2014 - Present**

* *National Honors Society*
* *Environmental Club*
* *Key Club*

**Secretary** **2014 - 2015**

* *World Food Program*

**TECHNICAL ABILITIES**

Bilingual in English and Gujarati

Proficient in technical computer programming, particularly Microsoft Office and Windows 8