

David Navar

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EDUCATION

University of Texas at Austin Aug '12 – Present

M.S. in Environmental Engineering

- Focus Area: Algae biomass cultivation using wastewater treatment plant effluent
- Cumulative GPA: 3.2

University of Texas at Austin Aug '06 – Aug '11

B.S. in Mechanical Engineering

- Cumulative GPA 3.28

WORK EXPERIENCE

University of Texas, Austin Research Assistant June '11 – Nov '11

- Assisted Dr. Jeffrey Siegel in field and lab research to characterize the indoor air quality of large department stores
- Learned to conduct experiments measuring: air particles, CO₂, HVAC energy use, Air Flow in HVAC systems, Ventilation/infiltration, and Volatile organic compounds (VOC)
- Assisted in the development of a new method to measure ozone emission from household air purifiers and U.V. light-emitting air sterilization devices.
- Gained the experience to troubleshoot and repair scientific instruments and process electronic data and signals from various devices.

NASA, Jet Propulsion Laboratory, Summer Intern June '05 – Aug '05

- Worked under senior robotics engineer Dr. Edward Tunstel to design rover chassis parts in the Solidworks software
- Assisted in programming for an infrared laser guidance system for use in an autonomous rover prototype.
- Won 1st place in a national competition of SHARP participants for creating a lunar experiment proposal

MDB Construction, Contractor's Assistant June '06 – Aug '06

- Developed a 3D micromachining process for micro-electromechanical systems (MEMS) manufacturing
- Constructed a UV-spectroscopy device for protein detection for diagnosing osteoporosis

SCHOLARSHIPS RECEIVED

Gates Millennium Scholarship Aug '05 – Present

- Awarded to outstanding minority students in math and sciences
- Funds Undergraduate, Masters, and Doctoral Education.

SKILLS

- Fluent in Spanish and English Speak/Read/ Write
- Experience using ANSYS Software for heat transfer modeling
- Proficient in Solidworks, Matlab, C++ Java, Stata, Multisim, Labview
- Expert user of Microsoft Word, Excel, and Powerpoint

COURSEWORK

Physical & Chemical Treatment of Water and Wastewater
Water Pollution Chemistry
Engineering Microbiology
Environmental Analysis
Geographic Information Systems in Water Resources
Water resources Planning and Management
Environmental Organic Chemistry

Fluid Mechanics
Thermodynamics
Heat Transfer
Thermal Fluid Systems
Mechatronics
Machine Elements
Numerical Methods