

Jackson D. Myers

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Houston, TX 77006

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WEB

<http://www.jackson-myers.com>

Education

RICE UNIVERSITY, HOUSTON, TEXAS - 2008 - 2012

Applied Physics PhD program

- Core courses included quantum mechanics, thermodynamics, electrodynamics, and solid state physics.
- Biophysics research on electrical characteristics of heart muscle cells.

RICE UNIVERSITY, HOUSTON, TEXAS - 2006 - 2008

Master of Science in Nanoscale Physics - Professional Master's Program

- Internship with a medical imaging technology company and research internship studying magnetite nanoparticles.
- Program included business and communication courses, industrial seminars, and electives in medical imaging, biophysics, and computational methods.

MCGILL UNIVERSITY, CANADA - 2000 - 2005

Bachelor of Science in Physics

- Emphasis on experimental physics.
- Electives in meteorology, geology, and computer science.

Work Experience

PATTERN ENERGY (12/2015 - PRESENT)

Operations Performance Specialist - Meteorology.

- Supports meteorology team with operations focused data analysis and reporting capabilities.
- Developed wind and energy forecast report to update wind farm personnel on upcoming conditions and expected energy production.
- Developed wind yield reporting tools.

EDP RENEWABLES NORTH AMERICA (5/2012 - 12/2015)

Performance Analysis Associate.

- Performed ad-hoc analyses of wind and solar power plant performance and identified performance improvement opportunities.
- Supported engineering, energy assessment, meteorology, asset management, and finance teams by performing complex data analyses on a variety of subjects.
- Managed lightning reporting and lightning field research programs. Proactively identified lightning damage. Reduced turbine downtime and repair costs.
- Developed tools to calculate curtailment losses and revenue losses due to component failures.
- Developed tools to monitor power production from uprated wind farms.
- Developed tools to track solar plant performance ratio and availability.
- Evaluated the effectiveness of wildlife protection systems from various wind turbine manufacturers.

APPLICATION DEVELOPMENT - JUNE 2008 - PRESENT

Application Developer - SlothCam / StepTracker / Barograph

- Developed and marketed my own iOS applications for Mac OS, iPad and iPhone with support for Apple iCloud, AirPlay, and CoreMotion technologies..

PEDIATRIC CARDIAC BIOENGINEERING LAB AT TEXAS CHILDREN'S HOSPITAL: HOUSTON TX - SEPT 2008 - MAY 2012

Graduate student / research assistant in a bioengineering lab focused on cardiac tissue engineering.

- Research on the effect of substrate stiffness on heart muscle cell electrophysiology.

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- Teaching assistant for freshman physics lab, biomechanics, and introduction bioengineering courses.

PROPORTIONAL TECHNOLOGIES: HOUSTON, TEXAS - JUNE 2007 - NOVEMBER 2007

Internship for Professional Master's Program

- Data analysis from PET (positron emission tomography) studies.
- Assisted with preparation of FDA investigational new drug report for radiopharmaceutical imaging agent.

COLVIN LAB - CENTER FOR BIOLOGICAL AND ENVIRONMENTAL NANOTECHNOLOGY: HOUSTON, TEXAS - NOV 2007 - SEPT 2008.

Academic Internship for Professional Master's Program

- Studied potential uses of magnetite nanoparticles for imaging and drug targeting applications.
- Mössbauer spectroscopy characterization of magnetite / maghemite nanoparticles.

Skills

OPERATING SYSTEMS

- Linux/Unix, Mac OS X, iOS, Windows.

PROGRAMMING LANGUAGES

- C, C++, Objective-C/Cocoa/Cocoa-touch, Swift, HTML, Java, Javascript, Latex, UNIX Shells, Matlab, SQL, Visual Basic, C#.

SOFTWARE

- MS Office, MS SQL Studio, MS Visual Studio,, Tableau, OSI PI Database systems, Xcode.

Publications and Presentations

• MULTIPLE LIGHTNING DISCHARGES IN WIND TURBINES ASSOCIATED WITH NEARBY CLOUD-TO-GROUND LIGHTNING.

IEEE Transactions on Sustainable Energy (Volume:6, Issue: 2, 2015)

• LIGHTNING DAMAGE TO WIND TURBINE BLADES FROM WIND FARMS IN U.S.

IEEE Transactions on Power Delivery (Volume:PP, Issue: 99, 2014)

• LIGHTNING ATTACHMENT TO WIND TURBINES IN CENTRAL KANSAS: VIDEO OBSERVATIONS, CORRELATION WITH THE NLDN AND IN-SITU PEAK CURRENT MEASUREMENTS.

AGU Fall Meeting, San Francisco, 2012.

Awards

- Houston Press - Photos of the Year, 2013.
- Houston Press - Houston's Top 10 Photographers, 2014.
<http://www.houstonpress.com/arts/the-rest-of-the-best-houstons-top-10-photographers-6387590>

Hobbies and Activities

- Cycling, surfing, running.
- Digital photography with published photos.
- iOS mobile application development.