

JOSHUA PRINCE EBIN

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, GA Graduation date: Dec 2016

- Senior, **Mechanical Engineering** & France GTL Study Abroad (Spring 2015) **GPA 3.76/ 4.00**
- Thermo-fluids, Heat Transfer, Energy Systems Analysis & Petroleum Geomechanics
- Shell Mechanical Engineering Tutor for Thermodynamics

PERIMETER COLLEGE, CLARKSTON, GA

August 2011 – December 2013

- Regents Engineering Transfer Program (RETP) student GPA 4.00/ 4.00

PROFESSIONAL EXPERIENCE

ENERGY GEOTECHNOLOGY VERTICAL INTEGRATED PROJECT, GA *Fall 2015*

- Modelling multiscale propagation in source rocks with applications to hydraulic fracturing for oil & gas
- Simulating fracture pattern propagation as well as tensile, compressive, and shear failure in shale rocks

UNIVERSITY OF CALIFORNIA, BERKELEY, (COINS) RESEARCH, CA

Summer 2014

- Developed a model to predict wildfires due to spot Fire Ignition of Natural Fuels by hot aluminum particles
- Gained experience with design and machining using digitized equipment and hot furnace for fire studies

GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, (SURE) RESEARCH, GA

Summer 2013

- Analyzed porous media fluid penetration depth for the slot die coating manufacturing in MATLAB
- Developed simulation models using ANSYS Fluent 13 CFD and performed RFIS experimental verifications

EXCELLATRON SOLID STATE, LLC INTERN, ATLANTA, GA

Summer 2012

- Updated over 50% of the research facility's electrical CAD drawings and machined parts using CNC
- Utilized the performance management plus software to reduce equipment downtime from days to a few hours

GEORGIA PERIMETER COLLEGE, ATLANTA, GA

January 2012 – January 2014

- Prototyped an autonomous robot for underwater resource exploration and subsea facility surveillance
- Employed as Tutor I for over 20 students freshman algebra, calculus, science and engineering courses

SKILLS

Autodesk CAD 2D Modeling & Inventor 3D Modeling

CNC Machining, Lathes, & mills

MatLab 2015 & Mathematica 9.0 Analytical Modeling

Leadership & Team building

ANSYS Fluent 13 CFD Simulation, Abaqus & Comsol Multi Physics

International Relations

CERTIFICATIONS, HONORS, & AWARDS

- French Institute of Petroleum (IFP) MOOC Oil & Gas Achievement - IFP/OG1/cert182 *Summer 2015*
- Outstanding Undergraduate Mechanical Engineering Researcher, GT UROP Awards *April 2015*
- First Place Oral Presenter, PLSAMP Annual Undergraduate Conference, Engineering *2013 & 2014*
- Georgia Institute of Technology Faculty Honor s and Dean's List *Fall 2014*
- British Petroleum (BP) & Intel Mechanical Engineering Scholar *2015/2016 Session*

LEADERSHIP EXPERIENCE

- Society of Petroleum Engineers (SPE) - Student Membership Chairman- NGA Sect.103 *2009/2010 Session*
- National Society of Black Engineers (GTSBE) – International Committee Chair *Since January 2015*
- Center for Engineering Education and Diversity (CEED)- Research Mentor *Since January 2012*
- Office of Minority Educational Development (OMED) – Volunteer *Since January 2014*
- African Student Association (ASA)- Webmaster *2014/2015 Session*
- Pi Tau Sigma (PTS)- ME Honor Society- Honorary Member *Since November 2014*