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Shaun Eshraghi

26 Forest Hills St Apt 3
Boston, MA 02130

PROFILE Engineer with a background in additive manufacturing and biomaterials

EDUCATION

Georgia Institute of Technology Atlanta, GA
Doctor of Philosophy in Bioengineering GPA: 3.5 – 10/2015

Georgia Institute of Technology Atlanta, GA
Master of Science in Mechanical Engineering GPA: 3.7 – 12/2013

Georgia Institute of Technology Atlanta, GA
*Bachelor of Science in Biomedical Engineering (*highest *honors)* GPA: 3.8 – 05/2008

SOFTWARE

MATLAB/Simulink	ANSYS	SOLIDWORKS	Python	Javascript
LabVIEW	COMSOL	Photoshop	C/C++	Java

EXPERIENCE

DDM Systems Atlanta, GA
Research Engineer/Intern 04/2013 – 8/2015
- Worked with a team of engineers to finalize the operation of a state-of-the-art additive manufacturing machine so that it could operate on a production floor under a tight time-frame
- Developed the controls for the automation of the preproduction additive manufacturing machine
- Collaborated with a team of process engineers on the material formulation of a photocurable resin with high loading of silica for investment casting
- Automated the preprocessing (tiling, support structure, and file compression) of large build files

Georgia Tech Mechanical Engineering Atlanta, GA
Teaching Assistant 01/2013 – 12/2013
- Hired by the School of Mechanical Engineering to TA a course on experimental methods
- Instructed senior level ME students on proper use of laboratory equipment, conducting experiments, and writing scientific reports

Medtronic, CRDM Minneapolis, MN
System Reliability/Summer Associate 05/2008 – 08/2008
- Developed a load sensing device for a bench study to better understand the mechanical use conditions of implanted medical devices
- Programmed extensively in LabVIEW and MATLAB for control of the device and data processing
- Designed a variety of mechanical tests on biomedical devices using Instron and Bose equipment

Georgia Tech Biomedical Engineering Atlanta, GA
Teaching Assistant 09/2006 – 04/2007
- Hired by the Biomedical Engineering Department at Georgia Tech to TA a course on the use of sensors and instrumentation for biomedical applications
- Mentored students on their design projects

RESEARCH

Direct Digital Manufacturing Lab, ME/BioE Atlanta, GA
PhD Candidate advised by Dr. Suman Das 08/2008 – Present
- Developed material preparation techniques and processing parameters for selective laser sintering of 3D microarchitectured composite parts for applications ranging from tissue engineering to electrically conductive polymer nanocomposites
- Developed models in MATLAB and COMSOL to determine the functional properties of the parts with different filler loadings and architectures
- Investigated photopolymerization of hydrogels for soft tissue engineering fabricated by large area maskless photopolymerization

Biomechanics Lab, ME/BME Atlanta, GA
Undergraduate Research Assistant advised by Dr. Ray Vito 08/2006 – 12/2007
- Collaborated with a graduate mentor to develop 3-D mechanical models of atherosclerotic coronary arteries in order to predict plaque rupture
- Used MATLAB to automate image processing of histological sections and Amira for reconstruction of a segmented 3D model
- Self-initiated learning in programming languages, mechanical modeling, and atherosclerosis
- Sectioned and stained coronary arteries in a histology lab