Rowan Thomas Lumb

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Skills

Programming: R, Python, Google Analytics, LaTex
Design: AutoCAD, SOLIDWORKS
Mathematics: Calculus, DE's, PDE's, Statistics, Machine Learning
Presentation: Microsoft Excel, Powerpoint, Word

Education

M.Sc. in Mechanical Engineering — June 2017 — May 2019

University of Memphis

Research/Thesis work in the acoustic emission non-destructive testing of fatigued 4340 steel and 7075 aluminum. Data analysis work utilized the R programming language and the application of supervised neural networks. Research published in Springer's Data Enabled Discovery journal under the title: Analysis of Fatigue Damage Information Obtained from Acoustic Emission Data

GPA: 3.4

B.Sc. in Physics — August 2012 — May 2017

Tennessee Technological University

GPA: 3.3

Work experience

Self-Employed — August 2019 — Present

Data Analyst Freelancer

Have completed an assortment of freelance work ranging from simple workflow automation using Zapier and Airtable, to data pre-treatment work for mobile app data. However, job focus is on data analysis and dashboard visualization using R, Python, Google Data Studios and other technologies as needed.

University of Memphis — August 2018 — May 2019

Graduate Teaching Assistant

Graduate Teaching Assistant leading engineering labs while working towards Masters Degree in Mechanical Engineering. Taught differential equations in mechanical, thermal, and electronic applications.

View Glass — May 2018 — August 2018

Software Development/Engineering Intern

Developed Web Applications in a .NET environment utilizing RESTful API and Angular 2/Bootstrap Framework that was deployed in a manufacturing environment.

University of Memphis June 2017 — May 2018

Graduate Teaching Assistant

Graduate Teaching Assistant leading engineering labs while working towards Masters Degree in Mechanical Engineering.

Los Alamos National Laboratory June 2016 — August 2016

Research Intern

Developed precise 3-D object tracking program using C++ to monitor object location within experimental apparatus using C++ and OpenCV open-source libraries.

Los Alamos National Laboratory June 2015 — August 2015

Research Intern

Assisted in magnetic mapping of UCNtau (experiment to precisely measure the half-life (tau) of the free neutron) apparatus to analyze possible systematic effects.

Oak Ridge National Laboratory June 2014 — August 2014

Research Intern

Assisted in construction of Fast Ionization Chamber for new Gammasphere and Orruba nuclear detectors. Developed predictive R-process simulations using Root.

References

References available upon request.