

Rowan Thomas Lumb

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Website: RTLDataSci.com

Skills

Programming: C++, R, Tensorflow, Python, LaTeX

Design: AutoCAD, SOLIDWORKS

Mathematics: Calculus, DE's, PDE's, Statistics

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

Banpo Speakers

August 2019 — Present

English Teacher

Responsible for leading Elementary aged children through English lesson plans using a technology integrated classroom.

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 (τ) 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.