

Liudas Panavas

lpanavas@email.sc.edu
610-906-5941

40 Beechwood Ln.
Ridgefield CT, 06877

Education:

PhD Student - Northeastern University; Boston, MA

Major, Computer Science

University of South Carolina; Columbia, SC

Major, Mechanical Engineering

Minor, Computer Science

Started Fall 2020

Cumulative GPA: 3.67

Graduated: December, 2019

Cumulative GPA: 3.88

Academic Experience:

Data Visualization Lab at Northeastern

Researcher; Boston, MA

August, 2020 – Present

- Work with the Virtual Reality and Immersive Analytics team focusing on data storytelling and VR audio
- Exploring crowdsourcing capabilities to run VR experiments using social VR platforms

Research at McNair Center

Undergraduate Researcher; Columbia, SC

September, 2015 – December 2019

- Developed software funded by NASA to find layup strategies based for automated fiber placement
- Wrote tutorials and documentation for software that improved clarity and usability of application
- Awarded NSF I-Corps grant to investigate commercial viability of supplier ranking software
- Created software coded in Java for Boeing that ranks suppliers based on customer criteria
- Submitted two papers for publication regarding the improvement of underperforming suppliers
- Presented talk at the international PLM 2017 conference regarding a part criticality index
- Awarded 4 grants from USC to pursue research in automated fiber placement and supplier evaluation
- Delivered a detailed 75 page report regarding the reduction and quantification of layup defects

Karlsruhe Institute of Technology

Research Assistant; Karlsruhe, Germany

May, 2019 – August, 2019

- Developed python code to create 3D geometries from point clouds in Abaqus from 2D planes of points
- Worked in a team to automate simulation of topology optimization for 3D printed parts

University of Technology of Compiegne

Research Assistant; Compiegne, France

June, 2017 – August, 2017

- Created an algorithm to model a factory involving cellular manufacturing and mass customization
- Created initial reports and state-of-the-art that led the EU to select the project for three years of funding

University of South Carolina Engineering Department

Teacher's Assistant, Statics; Columbia, SC

August, 2016 – December, 2016

- Set scoring standards and graded student's assignments and tests for a class of 45
 - Received an evaluation of 4.92 out of 5 from end of semester student evaluations
-

Professional Experience

ANSYS

Software Tester Co-op; Pittsburgh, PA

August, 2018 – December, 2018

- Created automated tests that analyzed the newest ANSYS products related to additive manufacturing
- Performed function, application, regression, and interactive tests on new Additive Print feature
- Ensured product was ready for deployment in final stages of development
- Maintained and updated servers and programs to automate regression tests

Geo Systems Design and Testing

Field Technician; Columbia, SC

March, 2016-May, 2016

- Performed laboratory tests to ensure soil and concrete were up to national regulation standards
 - Cross-referenced data obtained from tests with graphical models to create detailed reports
-

Leadership Experience

Society of Manufacturing Engineers

October, 2016 – December 2018

Founder, President; Columbia, SC

- Led a chapter at USC to increase education and awareness of the manufacturing community
- Organized over 15 talks and factory visits to provide students with firsthand experiences

IdeaSC

September, 2016 – May,

2017

Chief Marketing Officer; Columbia, SC

- Helped start a non-profit to find creative ways to educate communities in South Carolina
- Organizing TEDxUofSC in to spread student's ideas at University of South Carolina
- Creating a media plan for TEDxUofSC to attract audience and speakers from diverse backgrounds

Honors/Activities:

- McNair Scholar, 2015-2019, Top Academic Scholarship at University of South Carolina
- Dean's List, 2015-2019
- Magellan Mini-Grant, 2019
- E. Wayne Kim SME undergraduate Scholarship 2017-2018
- NSF I-Corps Grant recipient, 2018
- Magellan Grant recipient, 2017
- University of South Carolina Surf grant recipient (3), 2016 - 2017
- McNair Junior Fellow, 2016
- Lieber Scholar, 2015
- National Merit Scholar, 2014

Skills:

- Java, C++, Python, GIT, JavaScript, React, Microsoft Office, ANSYS Mechanical, Catia, Abaqus, NetLogo

Organizations:

- PhD Curriculum Committee Student Ambassador, Northeastern
- SME (Society of Manufacturing Engineers), Founder, USC
- SAMPE (Society for the Advancement of Material and Process Engineering), Webmaster, USC

Languages:

English, Lithuanian

Publications/Conferences

- Saidy, C., Pinna, C., Wilson, Z., Panavas, L., Harik, R., & Bayoumi, A. M. (2018). Literature review of current practices of supplier's assessment and valuation of decisions regarding underperforming suppliers. *International Journal of Product Lifecycle Management*, 11(3), 245-267.
- Saidy, Clint, Liudas Panavas, Ramy F. Harik and Joseph Khoury. "Development of a Part Criticality Index in Inventory Management." (2017); Presented at PLM 2017, July 10-12, Seville, Spain
- Panavas, Liudas, Plukynas, Darius. "Social Capital Effects on Migration Flows in a Modern Global Society" (2019); Presented at MSBC 2019, September 18-20, Vilnius, Lithuania