Matt Nice

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EDUCATION

Vanderbilt University

M.Eng. Cyber Physical Systems, GPA: 3.9

Tulane University

B.S.E. Biomedical Engineering with Honors

- Honors Thesis, Induction of Angiogenesis in the Mouse Mesentery.

Nashville, TN Spring '19 – Fall '19 New Orleans, LA Fall '14 – Spring '18

EXPERIENCE

M.Eng Research Project, Institute for Software Integrated Systems at VU, May '19 - August '19

- Reverse engineered the CAN bus and on-board radar unit of a vehicle with in-depth Python data analysis
- Order of magnitude reduction of experimental costs, with an upgrade in experimental information collected

Team Big Easy, Make48, August '18

- Successful plan, MVP prototype and pitch of a new product idea in 48 hour invent-a-thon competition.

Patent Prosecution Intern, Pearl Cohen Zedek Latzer Baratz, May '18 - August '18

- Learned how designs go from engineer to accepted patent. Notable clients: Medtronic, 3D Systems, Volkswagen.

Research Assistant, Microvascular Dynamics Lab, June '15 - May '18

Worked on multiple projects including authorship of abstracts and published papers in *Microcirculation* (https://doi.org/10.1111/micc.12502).

Rapid Prototyping Tech, Makerspace/Wond'ry, Jan '18- Aug '19

- Assisted students and faculty in the drafting and fabrication of desired parts and projects.
- Operated and maintained 3D printers, laser cutters, metal and wood shop machinery. Taught basic CAD.
- Upheld all field safety standards and regulations (e.g. PPE).

ASSORTED PROJECTS

- Data analysis for Compete America Coalition used in immigration reform talks with National Economic Council
- Public school growth projections using U.S. Census and archived Arlington County enrollment datasets
- Modeled and verified automated cruise control using NuXMV symbolic model checker

LEADERSHIP AND SERVICE

Tulane Ultimate Frisbee Club: '16-'18 Club Vice President, '14-'15 captain of Rex "B" team.

Community Volunteer: Washed laundry for people suffering homelessness in Nashville. Assisted high school students with science projects in New Orleans. Repeated Ronald McDonald House visitor/chef. Attended various New Orleans STEM outreach events.

SKILLS

Biological Lab: Cadaver dissection, IHC Tagging, Fluorescent Microscopy, Tissue Culture, Mesentery Harvest.

Computer and Natural Languages: *Proficient:* Python (pandas, numpy), French, MATLAB, Excel, InkScape. *Academic Experience:* Java, HTML/CSS, Ruby on Rails, LaTeX, SQL, AutoCad, Fusion 360, C/C++.

HONORS AND AWARDS

Senior Honors Scholar (1 of 25 per class)	2018
Tulane University Scholar (1 of ~80 per class)	2015-2018
Tulane University Honors Program	2015-2018
Distinguished Scholar Merit Scholarship (\$25,000 annually)	2015-2018
Dean's Grant	2015, 2016
Tulane Honors Summer Research Grant	2015