**Nathan Hutchins, Ph.D.** [nathan-hutchins@utulsa.edu](mailto:nathan-hutchins@utulsa.edu)

2504 E. 6th St., Tulsa, Oklahoma 74104 (918) 348-5355

**EDUCATION**

|  |  |  |  |
| --- | --- | --- | --- |
| Doctorate of Philosophy | Computer Engineering | University of Tulsa | December 2018 |
| Masters of Science | Electrical Engineering | University of Tulsa | May 2015 |
| Bachelors of Science | Electrical Engineering | University of Tulsa | May 2012 |

**EMPLOYMENT HISTORY**

|  |  |  |  |  |  |  |  |  |  |
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| **University of Tulsa** |  | | | August 2018 – Present | | | | | |
| 800 South Tucker Drive, Tulsa, Oklahoma 74104 | | | |  | | |  | | | | | | | |
| **Applied Assistant Professor** | | | |  | | | | | |
| * Teaching EE1001 Introduction to Electrical and Computer Engineering | | | | | | | | | |
| * Teaching EE1011 Computer Tools in Electrical and Computer Engineering | | | | | | | | | |
| * Teaching EE2063 Introduction to Computer Organization and Microprocessors | | | | | | | | | |
| * Teaching EE2163 Digital Systems Principles | | | | | | | | | |
| * Teaching EE2263 Embedded Systems in ‘C’ | | | | | | | | | |
| Supervisor: Dr.Kaveh Ashenayi– (918) 631-3278 | | | | | | | | | |
|  |  | | |  | | | | | |
| **University of Tulsa** |  | | | August 2013 – May 2018 | | | | | |
| 800 South Tucker Drive, Tulsa, Oklahoma 74104 | | | |  | | |  | | | | | | | |
| **Teaching Assistant** | | | |  | | | | | |
| * Teaching EE1001 Introduction to Electrical and Computer Engineering | | | | | | | | | |
| * Teaching EE1011 Computer Tools in Electrical and Computer Engineering | | | | | | | | | |
| * Teaching EE2063 Introduction to Computer Organization and Microprocessors | | | | | | | | | |
| * Teaching EE2161 Digital System Principles Laboratory | | | | | | | | | |
| Supervisor: Dr.Kaveh Ashenayi– (918) 631-3278 | | | | | | | | | |
|  | | | | | | | | | |
| **University of Tulsa** |  | | | January 2015- August 2016 | | | | | |
| 800 South Tucker Drive, Tulsa, Oklahoma 74104 | | | |  | | |  | | | | | | | |
| **Stereo Vision Research Assistant** | | | |  | | | | | |
| * Researching Stereo-Vision and Computer systems | | | | | | | | | |
| * Working with JPL and NASA on Computer Vision systems | | | | | | | | | |
| Supervisor: Dr. Loyd Hook – (918) 631-3272 | | | | | | | | | |
|  | | | | | | | | | |
| **Noram-SMC, INC** | | |  | | October 2013-August 2016 | | | | | |
| P.O. BOX 54635, Tulsa, OK 74155-0365 | | | | | | | | | |
| **Electronic Repair Technician** | | | | | | | | | |
| * Maintain High-Current and Relay Test Equipment | | | | | | | | | |
| Supervisor: Bob Berg – (918) 622-5725 | | | | | | | | | |
|  | | | | | | | | | |
| **Jacobs Technology Inc**. | | |  | | Summer 2015 | | | | | |
| 600 William Northern Blvd. Tullahoma, TN 37388 | | | | | | | | | |
| **NASA Electrical Engineering Intern** | | | | | | | | | |
| * Researched Stereo and Computer Vision Topics * Developed Test Plans and Conducted Test on Computer Vision Systems | | | | | | | | | |
| Supervisor: Wayne Lu – (619) 276-5663 | | | | | | | | | |
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| **Sercel-GRC** | |  | | Summer 2014 | | | | | |
| 6540 East Apache St. Tulsa, Ok 74115 | | | | |  |  | | | | | | |
| **Research and Development Design Intern** | | | |  | | |  | | | | | | |
| * Helped develop and test new high temperature and pressure gauges | | | | | | | | | |
| * Analyzed data and wrote reports to display findings | | | | | | | | | |
| Supervisor: Anthony Thornberry – (918) 280-2848 | | | | | | | | | |
|  | | | | | | | | | |
| **Tinker Air Force Base** | | | | |  | June 2012 – August 2013 | | |  | | | | | | | |
| 3001 South Douglas Blvd, Midwest City, Oklahoma 73145 | | | |  | | |  | | | | | | |
| **0855 – Electronics Engineer, GS-0855-09** | | | | |  |  | |  | | | | | | | |
| * Developed Test Program Sets (TPS) for the B1, B2 and KC-135 Aircraft | | | | | | | | | |
| * Emulated hardware design into software protocols | | | | | | | | | |
| * Completed software design tasks, converting HP-Vee and L200 to VIPER | | | | | | | | | |
| * **Security Clearance:** Secret | | | | | | | | | |
| Supervisor: Doug Harrison – (405) 582-5088 | | | | | | | | | |
|  | | | | | | | | | |
| **Level (3) Communications** | | | | |  | Summer 2010 | | | | | |
| 100 S. Cincinnati Ave., Tulsa, OK 74103 | | | | |  |  | | | | | |
| **Intern** | | | | |  |  | | | | | |
| * Created decommission orders with the Engineering team | | | | | | | | | |
| * Worked in cooperation with Field Engineers to complete orders | | | | | | | | | |
| Supervisor: Samer Mouchantaf – (918) 547-0646 | | | | | | | | | |

**COMPUTER SOFTWARE**

Programming in C/C++, C#, Cuda C, OpenCV, Ubuntu 16.04, ROS, VHDL, AWR Microwave Office, Microsoft Office Professional Suite, Mathematica, MATLAB & Simulink, MathCAD, PSpice, Atmel AVR Studio 4&5, Eagle, LT Spice, Eclipse IDE,

**Research Projects**

Currently developing a small driverless car system with the University of Tulsa Vehicle Autonomy and Intelligence Lab (VAIL) for use in the University of Tulsa’s ARENA UAV testing laboratory. Working on Human Factors, Human-in-the-Middle, Autonomous Systems Ethics, and Nuisance Criteria for development of Autonomous Transportation Systems, specializing in Autonomous Systems Acceptance.

**ADDITIONAL TRAINING and QUALIFICATIONS**

State of Oklahoma Certified Engineer Intern

SSI Certified SCUBA Diver

Oklahoma Certified Surface Mine Supervisor

American Heart Association Certified First Aid

**PROFESSIONAL ACTIVITIES**

IEEE Member

IEEE Standards Association

IEEE Robotics Society