Kirubel Tadesse

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EDUCATION

Purdue University, West Lafayette, Indiana, USA

- Master of Science in Engineering and Computer Engineering (MSECE) Aug 2017 – Dec 2019
  - *Relevant Course*: Computer Architecture, Computer Networking, Artificial Intelligence (AI), Random Variable and Probability
  - Research areas: Data Science and Machine Learning

Jackson State University, Jackson, Mississippi, USA

- Bachelor of Science (B.S.) in Computer Engineering Aug 2013 – May 2017
  - Cumulative GPA: 3.9 / 4.0

RESEARCH EXPERIENCE

Visual Analytics Lab, Purdue University

- Electrical and Computer Engineering Oct 2018 – Present
  - Developed a web based visualization application
  - Created web page ranking and visualization tool based on user experience
  - Integrated a predictive model with user interactive visualization tool
  - Research areas: Data Analysis and Visualization

JSU NASA Swarmathon, Jackson State University

- Department of Computer Engineering Sep 2016 – May 2017
  - Developed a search algorithms in swarmie robots
  - Team-Lead: Mobilized a group of students to join the team
  - Review and hold progress report of the team
  - Research areas: ROS (Robot Operating System), Search Algorithms, Arduino, Ultrasonic Sensor

NASA Swarmathon, University of New Mexico

- Distributed Research Experiences for Undergraduates (DREU) Jun 2016 – Jul 2016
  - Work of ROS-TF (Transform)
  - Programmed a broadcaster and listen node in C++
  - Presented a poster on 2016 RSS Conference
  - Research areas: ROS (Robot Operating System), Search Algorithms, Arduino.

Android Application Development, Jackson State University

- Department of computer science Jan 2016 – May 2016
  - Useful Android App Development
  - Understood Android Studio
  - Presenting our research at Mississippi State Capitol rotunda
  - Research areas: Java programming

PUBLICATIONS

CONFERENCES

[1] <u>Kirubel Tadesse</u>, Melanie Moses, Joshua Peter Hecker, and George Matthew Fricke, "April Tag Detection: Calculating Distance Use ROS Transform Package," in *2016 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Daejeon, South Korea, Oct 2016.

ACADEMIC AWARDS

- Dean's List, Fall 2015 through Spring 2016, Science College 2015 – 2016
  For attaining a semester GPA of at least 3.91
- Presidential List, Fall 2013 through Spring 2015, Science College 2013 – 2015
  For attaining a semester GPA of at least 4.00
- Undergraduate Researcher Award, Science College Apr 2016
  On Developing an Android App to Control a Robot Via the RN-42 Bluetooth Module
- Academic Scholarship, Global Science, Technology, Engineering, and Mathematics Foundation May 2013
  Engineering department Scholarship based on Mathematics Score on ACT

PROFESSIONAL AFFILIATIONS & ACTIVITIES	**Institute of Electrical and Electronics Engineers (IEEE)**, Mississippi, USA	2013 – Apr 2017
	National Society of Black Engineers (NSBE), Mississippi, USA	2012 – Apr 2017

CAMPUS ACTIVITIES

Teaching Assistant (TA), Purdue University

- ECE 437 Computer Design and Prototyping   Oct 2017 – Dec 2017
  - Hold regular office hours
  - Grade homework and tests
  - Communicated students question on Piazza Forum

ECE Graduate Student Association (ECEGSA), Purdue University

- Vice President Internal   Aug 2017 – Jan 2018

College of Science, Engineering and Technology (CSET), Jackson State University

- Mentor   Jan 2014 – Apr 2017
  - Teach *Introduction to Robotic*
  - Learned mentor-ship skill
  - Guide students in Major to excel professionally

Richard Wright Center, Jackson State University

- Peer Tutor   Aug 2014 – Apr 2017
  - Went through an intensive 20-hour training course
  - Learned skills on improving sentence structure and communicating with an audience
  - Helped students with context, content, and organization of their papers

OTHER WORK EXPERIENCE

Engineering Computer Network (ECN) West Lafayette, IN, USA

- Student Employee   Aug 2017 – Oct 2017
  - Maintained End-user system administration and related networking
  - Informed mentor and administration organization involved
  - Understood Engineering software installation, setup, and deploy
  - Learned to do advance system administration installation and configuration

GoogleIgniteCS, Jackson, Mississippi, USA

- Lead Mentor, Oversee & Organize the program   Mar 2017 – May 2017
  - Construct time line for the program
  - Informed mentor and administration organization involved
  - Teach Net-Logo at Provine High School

P3strategies, Jackson, Mississippi, USA

- Intern, Data Analytic & Visualization   Jun 2015 – May 2016
  - Cleaned and exported Excel data
  - Analyzed and Visualized data using Tableau
  - Created P3strategies logo and managed website

LANGUAGES

- Amharic: Native language
- English: Fluent (speaking, reading, writing)
- Spanish: Novice (speaking, reading, writing)

SKILLS

Adobe Illustrate, Bokeh, C++, CSS, Django, HTML, Git, LaTeX, Joomla, Mathematica, Microsoft Office, Net-Logo, PHP, Python, Tableau, TensorFlow, Ubuntu, Vim, Windows, Wordpress.