







Kirubel Tadesse

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EDUCATION

Purdue University, West Lafayette, Indiana

- Master of Science in Engineering and Computer Engineering (MSECE) May 2020
 - *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

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

RESEARCH EXPERIENCE

Visual Analytics Lab, Purdue University

- **Electrical and Computer Engineering, Graduate Research Assistant** Oct 2018 – Present
 - Developed a web based visualization application to rank website
 - Model website ranking based on user experience
 - Formulate a predictive model to express user interaction the website
 - Research areas: Data Analysis and Visualization

JSU NASA Swarmathon, Jackson State University

- **Department of Computer Engineering, Team Lead** Sep 2016 – May 2017
 - Researched a search algorithms in swarmie robots
 - Encouraged students to join the team
 - Coordinated weekly meetings to review and evaluate progress
 - Research areas: ROS (Robot Operating System), Search Algorithms, Arduino, Ultrasonic Sensor

NASA Swarmathon, University of New Mexico

- **Distributed Research Experiences for Undergraduates (DREU), Summer Intern** Jun 2016 – Jul 2016
 - Build and tested similar triangle model - with scaling, translate, and transform factors - against ROS-TF package
 - Programmed a broadcaster and listen node in C++
 - Presented a poster on 2016 RSS Conference
 - Research areas: Swarm Robotics, ROS (Robot Operating System), Search Algorithms, Arduino.

Android Application Development, Jackson State University

- **Department of computer science, Undergraduate Research Assistant** Jan 2016 – May 2016
 - Explored Android Studio
 - Build Android App
 - Exhibited the research at Mississippi State Capitol rotunda
 - Research areas: Java programming

PUBLICATIONS

CONFERENCES

- [1] Kirubel Tadesse, 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, May 2013
 - Global Science, Technology, Engineering, and Mathematics Foundation
 - Engineering department Scholarship based on Mathematics Score on ACT

PROFESSIONAL AFFILIATIONS & ACTIVITIES	Institute of Electrical and Electronics Engineers (IEEE) , Mississippi	2013 – Apr 2017
	National Society of Black Engineers (NSBE) , Mississippi	2012 – Present
CAMPUS ACTIVITIES	ECE 437 Computer Design and Prototyping , Purdue University	
	<ul style="list-style-type: none"> ▪ <i>Graduate Teaching Assistant</i> <ul style="list-style-type: none"> • Scheduled regular office hours • Grade homework and tests • Communicated students question on Piazza Forum 	Oct 2017 – Dec 2017
	ECE Graduate Student Association (ECEGSA) , Purdue University	
	<ul style="list-style-type: none"> ▪ Vice President Internal 	Aug 2017 – Jan 2018
	College of Science, Engineering and Technology (CSET) , Jackson State University	
	<ul style="list-style-type: none"> ▪ <i>Mentor</i> <ul style="list-style-type: none"> • Lectured <i>A Gentle Introduction to ROS</i> for competition • Mentor student on Mathematics and Computer Programming • Guide students in their major to excel professionally 	Jan 2014 – Apr 2017
OTHER WORK EXPERIENCE	Richard Wright Center , Jackson State University	
	<ul style="list-style-type: none"> ▪ <i>Peer Tutor</i> <ul style="list-style-type: none"> • Went through an intensive 20-hour training course • Displayed skills on improving sentence structure and communicating with an audience • Advised students with context, content, and organization of their papers 	Aug 2014 – Apr 2017
	Engineering Computer Network (ECN) West Lafayette, IN	
	<ul style="list-style-type: none"> ▪ <i>Student Employee</i> <ul style="list-style-type: none"> • Maintained End-user system administration and related networking • Conduct software installation, setup, and deploy • Explored advance system administration installation and configuration 	Aug 2017 – Oct 2017
	GoogleIgniteCS , Jackson, Mississippi	
	<ul style="list-style-type: none"> ▪ <i>Lead Mentor, Oversee & Organize the program</i> <ul style="list-style-type: none"> • Organize timeline for the project • Coordinate mentor and administrator for volunteer work • Teach Net-Logo at Provine High School 	Mar 2017 – May 2017
LANGUAGES	P3strategies , Jackson, Mississippi	
	<ul style="list-style-type: none"> ▪ <i>Intern, Data Analytic & Visualization</i> <ul style="list-style-type: none"> • Cleaned and exported excel data • Analyzed and visualized data using Tableau • Created P3strategies logo and managed the website 	Jun 2015 – May 2016
	<ul style="list-style-type: none"> ▪ Amharic: Native language ▪ English: Fluent (speaking, reading, writing) ▪ Spanish: Novice (speaking, reading, writing) 	
SKILLS	Adobe Illustrate, Bokeh, C++, CSS, Django, HTML, Git, L ^A T _E X, Joomla, Mathematica, Microsoft Office, Net-Logo, PHP, Python, Tableau, TensorFlow, Travis CI, Ubuntu, Vim, Windows, Wordpress.	