

Malintha Fernando

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Education

Indiana University

Ph.D. Student, Intelligent Systems Engineering (2017 - Present)

Major: Computer Engineering

Minor: Mathematics

CGPA: 4.0/4.0

Advisor: Prof. Lantao Liu

University of Moratuwa, Sri Lanka

B.Sc.(Hons.), Information Technology, 2015.

Upper Second Class (GPA: 3.4/4.2)

Royal College, Sri Lanka

GCE Advanced Level (2010) in Mathematics Stream (1 A's and 2 B's)

GCE Ordinary Level (2007) (10 A's)

Work Experiences

Software Engineer Intern - Open Robotics (Summer 2019)

Developed a framework for multi-quadrotor navigation with ROS, Gazebo and PX4. [\[Link\]](#)

Software Engineer - WSO2 (2016 - 2017)

Worked in WSO2 Governance Registry and WSO2 IOT Server teams. (SOAP, SOA Governance, WSO2 Carbon, WSO2 IOT, Apache Axis2, Java)

Software Engineer Intern - WSO2 (2014)

Developed an authentication analytic dashboard for WSO2 Identity Server. (WSO2 Carbon, Apache Axis2, Java, JavaScript)

Associate Instructor (Spring 2019)

Assisted Prof. Andrew Lukefahr for the graduate course Internet of Things.

Associate Instructor (Fall 2018)

Assisted Prof. Minje Kim for the graduate course Machine Learning and Signal Processing.

Associate Instructor (Fall 2017)

Assisted Prof. Lantao Liu for the graduate course Autonomous Robotics.

Research

Fernando, Malintha, and Lantao Liu. "Swarming of Aerial Robots with Markov Random Field Optimization" Robotics and Automation Letters (Pending), 2020.

Fernando, Malintha, and Lantao Liu. "Formation Control and Navigation of a Quadrotor Swarm." 2019 International Conference on Unmanned Aircraft Systems (ICUAS). IEEE, 2019.

Controlling and Trajectory Optimization for Nano-Quadrotors
Implemented a geometric tracking controller and a trajectory optimizer for Crazyflie 2.0 nano quadrotor to navigate multiple quadrotors in a collision free manner. (ROS, IBM CPLEX, FreeRTOS, Controlling)

Fernando Malintha, Cooray A.V.S, Indeewara T.G.H, Fernando S., Semi-supervised learning framework for knowledge extraction in Cricket domain. In ITRU research symposium (2015), University of Moratuwa, Sri Lanka. [Link]

Volunteering

IEEE Region 4 Student Activity Committee - Member (2019)

IEEE Region 10 (Asia/Pacific) - Student Project Coordinator (2016)

Worked related to proposal evaluation and fund releasing for student branch activities in IEEE R10.

IEEE Sri Lanka Section - Section Student Representative (2015)

Coordinated and promoted student activities in IEEE Sri Lanka section.

IEEE R10 SYW Congress 2015 - Organizing Committee

Worked as the team lead for promotional activities. The congress brought more than 300 foreign IEEE delegates to Sri Lanka.

Other

Google Summer of Code (2014)

Worked with Mozilla calendar community to update Mozilla Lightning implementation to the latest calendaring specification. [Blog]

IESL Hackathon Winner - 2014

Runners Up - Dialog-UNDP Hackathon 2016