MEDINI J. ARADHYA

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EDUCATION

University of Florida, Gainesville.   **August 2018 - Present**

Masters of Science : Electrical and Computer Engineering
Courses: Reconfigurable Computing, Embedded Systems Seminar, Noise in Linear Systems,
Digital Signal Processing, State Variable Methods, Modern Control Theory, Engineering Graduate Research.
Grade Point Average – **3/4**

Manipal Institute of Technology, Manipal, India.   **July 2012-May 2016**

Bachelor of Technology : Electrical and Electronics Engineering
Cumulative Grade Point Average – **7.62/10**

TECHNICAL SKILLS

Software Skills – MATLAB, Xilinx Vivado, Simulink, LabVIEW, Arduino, Altium, TI CCS.
Programming and Scripting Languages – Python.
Operating System- Windows, Linux **Computer Tools** - MS Office (Excel, Word, PowerPoint)

EXPERIENCE

Engineering Graduate Researcher , BML   **Feb 2019- Present.**

- Graduate Researcher in the Bio-photonics and Microprocessor Lab.
- Optimization of the circuit design for MEMS Scanned LiDAR circuit, with particular focus towards effective signal processing.

Associate Project Engineer, ABB – INOPC.   **July 2016- July 2018**

- Job Role included development and testing of Control Graphics and Logics from P&ID's of Power Plants to aid the software platform (Symphony Plus) created for monitoring, controlling the plant.
- Contributed in the development of a migration tool used to upgrade existing control system architecture to the latest Symphony Plus System.
- Trained in 6 Sigma (Yellow Belt).

PROJECTS

Two Channel Simultaneously Sampling Data Acquisition Card   **Jan 2016-May 2016**
"MIT Manipal."

- Developed a low cost alternative to a data acquisition card with dual channel simultaneous sampling capability.
- Interfaced LabVIEW and Arduino to observe the sampled waveforms provided by signal generators.

LED Lighting fixtures and their design and Implementation of Smart Lighting"   **Jun 2015-Jul 2015**
"Uğray İthalat Elektronik-Elektronik, Istanbul"

- Design of Smart Lighting solutions. Thereby increasing productivity and efficiency.
- Improving LED converter topology for better efficiency.

Development of A Humanoid Robot.   **Jun 2014-Jul 2014**
"Sirena Technologies Pvt. Ltd. Bangalore"

- Contributed to the development of a Humanoid Robot with the frame work provided by 18 Dynamixel AX-12A robot actuators alongside multiple other sensors providing feedback; integrated onto one platform.

EXTRA CURRICULAR ACTIVITIES AND ACCOMPLISHMENTS

- Conferred with the Academic Achievement Award Scholarship for New Engineering Graduate Students.
- Represented MIT,Manipal as a part of the Robotics Team– Robomanipal in National level Robotics Competition – ROBOCON (2014)