

Madhu Babu V

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OBJECTIVE	I am seeking a competitive and challenging environment, which makes me to think beyond and which helps me to add a unique dimension to my life both professionally and personally.		
EDUCATION	Bachelor of Technology	Rajiv Gandhi University of Knowledge Technologies , R.K Valley CGPA : 8.88 Mechanical Engineering	May- 2016
WORK HISTORY	Developer	CTO Innovation Labs, Tata Consultancy Services	July-2016*
	Summer Researcher	Robotics and Intelligent Systems Laboratory IIT Kharagpur Advisor : Prof Dr. C.S Kumar Summer Research Internship	May- 2015
PUBLICATIONS	Madhu Babu V , Vamshi Krishna U, Shehensha SK, “ <i>An Autonomous Path Finding Robot Using Q-Learning</i> ” in IEEE XPLORE through proc of 10 th International Conference on Intelligent Systems and Control, Volume 2 January 7-8 2016 India.		
	Madhu Babu V , G V V Surya Kiran , SK Sameer, RoshanHota, C.S Kumar ,” <i>Stabilization of posture of humanoid in Gazebo using ROS</i> ” in SPRINGER through proc of 28 th international conference on CAD/CAM, Robotics and FOF 2016, January 6-8 2016 India.		
INTERNSHIPS	Stabilization of IIT KGP humanoid by Reinforcement Learning , Advisor : Prof Dr. C.S Kumar Robotics and Intelligent Systems Laboratory IIT Kharagpur. <ul style="list-style-type: none">Developed a heuristic learning algorithm named Q learning to stabilize biped on single leg.Developed a PID controller to controller the error in joint position while accessing the gait		May -2015
UNDER GRADUATE THESIS	Design of Dynamically Stable Gait Using Grid Solvers Advisor : Imran Shareef Rajiv Gandhi University of Knowledge Technologies, R.K Valley. Developing a dynamically stable gait which can walk like human gait. We have adopted for Grid Solvers for deriving optimal hip trajectory without any prior knowledge about the environment. Designed foot trajectory using cubic spline interpolation, used LMA for inverse kinematics. Extracted the hip trajectory with using grid solvers and spline interpolation.		Dec-2015
RESEARCH PROJECTS	Path and Motion Planning for AR Drone 2.0 Using Stereo Imaging Advisor : Mohammad Rafi Rajiv Gandhi University Of knowledge Technologies R.K Valley. Generating depth maps using stereo imaging techniques and using the depth, planning the path and motion in a cube (build with all length, width and depth) in order to reach the goal in a complete unknown environment.		Oct-2015
	Human Following UAV using Face Tracking with AR Drone 2.0 Adivisor : Varun Kumar Rajiv Gandhi University Of Knowledge Technologies R.K. Valley Using viola jones algorithm, detected the faces from the images, and developed a PID controller for drone to align at exact center of the face. We adopt for ROS for all the communication and interface.		Feb -2015
	Design of Autonomous Arduino based Quad Copter Rajiv Gandhi University of Knowledge Technologies R.K Valley Designed an autonomous Arduino based quad copter which can take off, hover and land autonomously. We had integrated this arduino with ROS for further heavy operations		Dec - 2014

RELEVANT PROFICIENCIES	Programming Languages : C,C#, Java,python	
	Database : Sql Server	
	Software : ROS, Gazebo, Open CV, Altair Hyper Works	
	CAD Software : Solid Works	
	Hard Ware : Arduino, Raspberry PI	
	Operating System : Windows, Linux/Unix	
WORKSHOPS	Workshop On Quad Copters	Feb -2015
	By Robo Tryst (Robo sapiens Pvt. Ltd), RGUKT R.K valley	
	Workshop On IC Engines and Transmission System	Dec -2014
	SRFMT & TI, Ananthapur, A.P	
OUT REACH AND SERVICE	Student Coordinator	July - 2015-May 2016
	Robotics Club, RGUKT R.K Valley	
	Event Coordinator	Mar - 2015
	ABHIYANTH'15 National Level Techno- Management Fest, RGUKT R.K. Valley	
	Event Coordinator	Feb -2015
	Zonal Rounds of Robo Tryst	
	Event Coordinator	Sept -2014
	VIPRASTHA'14 College Level Fest RGUKT, R.K Valley	
	Technical Student Volunteer (2)	2012&2014
	^[1] Election Management, District Magistrate Chamber, Kadapa.	
	^[2] Election Management, District Magistrate Chamber, Ananthapur	
ACHIEVEMENTS	Best Project Award	Jan -2016
	for Drony, RGUKT, R. K valley	
	Secured National Means-cum-Merit Scholarship Scheme (NMMSS))	2009-2013
	By Ministry of Human Resource Development India.	
	TirumalaTirupathDevasthanam Scholarship	2010 -2016
	By Sri VenkateswaraVidhyadana Trust	
REFERENCES	Available upon Request *	