ASWATHI MOHAN

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EDUCATION

M.S Computer Science University of Nevada, Reno, NV Graduating August 2017

Relevant Course Work: Analysis Algorithm, Computer Communication Network, Human Computer Interaction, Introduction to aerial robotics, Fundamentals of Cryptography, Evolutionary Computing, Fundamentals of Research, Security and Privacy in Mobile Computing.

Current GPA 3.73

B.S Electronics and Communications Mahatma Gandhi University, India May 2010

Relevant Course Work: Communication Systems, Control Systems, VLSI Technology, Microprocessors and Micro controllers, Digital Signal Processing, Digital Electronics and Logic Design, Linear Integrated Circuits, Multimedia systems.
Computer Programming, Computer Organization and Architecture, Neural Networks, Computer Networks, Operating System, Information Theory and Coding, Data structures.

GPA 3.3

SKILLS

Programming Languages:	C, C++, Java, Python, C#, Unity3D
Operating System:	Linux, Windows, Android, Robot Operating System (ROS)
Web Technologies:	Flask, Rails, HTML, Ruby, REST
Office Tools:	Microsoft Office
Certifications:	Red Hat Certified Engineer (RHCE)

WORK EXPERIENCE

Computer Science Department, University of Nevada, Reno

Online Submission Platform for Computer Science Courses (**SUBMIT)** |June 2016 - Present

- Develop a web platform that can automatically grade programming assignment for Computer Science classes.
- Skills: Rails, Flask, Python, Ruby, HTML, SQL, JSON, JavaScript, REST API, Bootstrap, RabbitMQ

Teaching Assistantant | January 2017 - Present

- Class : Parallel Computing

Development of the UNR Flying Arena | October 2015 – December 2015

- Integrated feedback and command system that can take over in case of emergency and safe land aerial vehicles by Implementing safety–critical mechanisms to boost aerial robotics research
- Skills: Aerial Robotics(Drones), Robotics Operating System(ROS), ROS-Indigo/Bebop package

OTHER PROJECTS

Efficient Way to Generate Large-scale Bayesian Networks using Genetic Algorithm:

- Develop a Hybrid Structure Learning Algorithm to efficiently generate and train large scale Bayesian Networks.
- Skills: C++, R, Bayesian Network, Genetic Algorithm

Climate Hangman: A Word Challenge Educational Game:

- Impart knowledge about the risks of Nevada Climate change
- Skills: Unity3D Game Engine, C#

Development of Multi Rotor Areal Vehicle Capable of Autonomous Navigation:

- Expand on multi rotor unmanned aerial vehicle autonomous capabilities
- Skills: ROS, IMU and USB-Cam interfacing, C++

Automatic Power Meter Reading System Using GSM:

- Controller is kept at the user side takes readings and sends it to the service provider using GSM.
- Integrates Microcontroller(ATmega 32), Opto-Coupler(TCET110), GSM Module, Rectifier and Voltage Control Circuit, Level shifter IC (MAX 232), LCD display(16*2), Relay circuit, Electronic Watt Hour Meter