# PADMAJA ANGALURU

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## *Objective:*

To obtain a Research assistantship or Teaching assistantship where my experience, education and knowledge in the field of Electrical, Electronics and Computer Science Engineering will have a valuable application.

## *Education:*

**Oakland University (OU),** Rochester, Michigan, Sep2014 –Till date

Master of Science (MS), Embedded Systems, **GPA:** 3.86

**Relevant Courses:**

Microprocessor-based System Design (HCS12), Parallel Embedded Computer Architecture and Embedded Systems Verification and Validation.

**S V University College of Engineering (SVUCE),** Andhra Pradesh, India, 2004

Bachelor of Technology (B.Tech), Electrical and Electronics Engineering, **GPA:** 3.10

**Relevant Courses:**

Engineering Mathematics, Analog and Digital Integrated circuits, Microprocessor Applications (8085), Electronic Devices and Circuits, Electrical Circuits and Networks, Pulse and Digital Circuits, Linear Control Systems, Power Systems, Power Electronics, Electronic Instrumentation and Measurement, Computer Programming.

**Strong Knowledge on courses with GPA 3.5/4.0 and above:**

- Electronic Devices and Circuits,
- Electrical circuits and Networks,
- Linear Control Systems,
- Computer Software Lab and Integrated Circuits and Microprocessors Lab

## *Academic Project Work:*

**M.S Academic Project**

Title            : Toy Car Control - Record Drive, Rewind/Repeat and Other Patterns

Description      : The toy car controller is a project designed using the Dragon-12 light board (HCS12 Microcontroller) and an actual purchased toy car with remote controller.

**Research Assistant - Department of Electronics Engineering, OU, Michigan**

Currently doing research on High Efficiency Video Coding (HEVC). HEVC is the newest video coding standard of the ITU-T Video Coding Experts Group and the ISO/IEC Moving Picture Experts Group.

**B. Tech Academic Project**

Title            : Observer Design for DC Position Control System using MATLAB

Description      : The investigations are carried out for designing different controllers for improving the transient response of a D.C position control system. The state space design methods using MATLAB are also studied.

## *Technical Skills:*

- Languages: Strong skills in C, C++, Assembly programming, MATLAB, COBOL
- Embedded Concepts: Fixed point, Floating point, Advanced Computer Architecture, 8085, HCS12
- Lotus notes, Microsoft Outlook and Microsoft Office (MS-Word, MS-Excel, MS-PowerPoint).
- Operating Systems: DOS, Windows and Z/OS

## *Interests:*

- Digital Signal Processing (Image and Video Processing in Matlab) and Parallel Processing/ processors
- Multimedia, Consumer electronics, Automotive and Mobile applications