

ABHINAV A. REDDY
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B.S.E student in Electrical Engineering, interested in Digital Signal Processing and Electromagnetics.

EDUCATION

Sept. '14- Dec. '17

UNIVERSITY OF MICHIGAN

Ann Arbor, MI

College of Engineering

Major: Electrical Engineering

Cumulative GPA: 3.78 | **In-Major GPA:** 3.69

Current Coursework: Controls, Data Structures and Algorithms

Selected Past Coursework: Digital Signal Processing, Signals and Systems, Data Structures and Algorithms, Circuits, Probabilistic Methods, Semiconductor Devices, Digital Communication Signals and Systems, Electromagnetics II, Discrete Math

Honors: Dean's List (Fall '14, Winter '15, Fall '15, Winter '16)

EXPERIENCE

May – Aug. '16

SUMMER UNDEGRADUATE RESEARCH

Ann Arbor, MI

EXPERIENCE IN ELECTRICAL ENGINEERING

- Enhanced performance of a new image similarity metric, Local Radius Index
- Increased accuracy over previous experiments from 70% using a 200 image database to 97% with a 140 image database, 76% with a 600 image database
- Designed and implemented improved preprocessing, feature extraction, and selection methods in MATLAB
- Worked closely with Prof. David Neuhoﬀ and a partner to analyze experiment results and gather data to expand databases

May – Aug. '15

ENGLISH GARDENS

West Bloomfield, MI

Sales Associate

- Provided customer service in the form of handling purchases and transactions, resolving customer complaints
- Worked as a member of a team to ensure all departments ran smoothly, managed multiple tasks independently
- Advised customers on selection of products by taking into account individual needs and circumstances

ACTIVITIES

Sept. '14 – Apr. 16

MICHIGAN HYBRID RACING TEAM

Ann Arbor, MI

Radio & VD Controls Subteams

- Prototyped, tested, and finalized system that relayed statistics from race vehicle to the pit team using XBee radio microcontrollers and Arduino
- Designed and sourced system to measure the steering angle of the vehicle
- Aided with testing and creation of shifting systems, CAN communication through dSPACE MicroAutobox

Sept. '15 – Apr. 16

STOCKWELL HALL PROFESSIONAL DEVELOPMENT COMMITTEE

Ann Arbor, MI

Marketing Chair

- Coordinated event marketing for over 400 residents through physical media, including flyers and banners, as well as online correspondence through email
- Developed community events with committee membership designed to foster and improve professional skills in hall residents
- Guided residents' preparations for career fairs by editing resumes and helping improve professional online presences

**SKILLS/
ADDITIONAL**

- C++, MATLAB, R, Simulink, Arduino, some experience with ADS, HFSS, Python
- Eta Kappa Nu – EECS Honor Society Member
- GE Student Leadership Conference Attendee
- Experienced with Audacity, GIMP, basic AutoCAD knowledge
- Comfortable and familiar with both Microsoft and Linux operating systems
- Proficient in Telugu, Spanish
- 6 years of Piano experience, 3 years of music production experience