

# ANDREW COLES

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## SKILLS

- Programming Languages: C/C++ | MATLAB | R | LaTeX | SQL | HTML | PHP
  - Adobe Photoshop |
  - Adobe Xd | Sketch
  - InVision
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## PROJECTS

- **MOTIVATR APP PROTOTYPE:** Mobile application prototype based on UX design cycle process: contextual inquiry, competitive analysis, user research and testing, wireframing and implementation in Sketch and InVision.
  - **ZAKY APP PROTOTYPE:** Mobile application prototype developed with real-world specifications from CEO of NurteredByDesign using product design sprint process. Fully interactive prototype implemented using Adobe Xd and InVision.
  - **UNDERGRADUATE CAPSTONE DESIGN PROJECT:** Augment existing surround sound installations with additional speakers via a central transmitter-unit which multiplexes multiple channels along with a dc offset. Receiver-unit, coupled with a dc powered speaker, demultiplexes the signal and plays one of the original channels, utilizing the dc offset to power the receiver-unit/speaker combination. Realized via software simulation relying on deep understanding of digital audio theories including sample rates, anti-aliasing, and reconstruction filters.
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## PROFESSIONAL EXPERIENCE

**Student Webmaster** | New Mexico State University | *Las Cruces, NM* *August 2014 - May 2016*

- Migrated departmental and faculty personnel websites to improved and more modern layout
- Edited and updated web content to ensure adherence to University policy and current events

**INCA Embedded System Programmer** | New Mexico State University | *Las Cruces, NM* *May 2015 - September 2015*

- Wrote system clock, error management, and other functions in C/C++ for custom linux embedded system as member of Command and Data Handling subteam
- Presented and demonstrated subteam progress for weekly project meetings

**Lean LaunchPad ECE Student Lead** | New Mexico State University | *Las Cruces, NM* *May 2015 - August 2015*

- Coordinated with ECE professors to test and demonstrate MIT Lincoln Labs DIY Radar Kit for incoming engineering students
  - Instructed freshman students about various aspects of corporate entrepreneurship including utilization of a Business Model Canvas and introductory systems engineering processes including design, prototyping, and validation
  - Worked with local vendors, administrators, and faculty to plan seven-day workshop for 30 incoming freshman student participants
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## EDUCATION

**BS, Electrical & Computer Engineering** | New Mexico State University | *Las Cruces, NM* *August 2012 - May 2016*

**MS, Information Studies** | University of Texas at Austin | *Austin, TX* *August 2017 - May 2019*