Andrew Coles

UX DESIGNER

CONTACT

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ABOUT ME

I'm excited to leverage my engineering, user research, and design skills to create world-class user experiences for every application — from websites and mobile apps to car stereos and door handles — no matter what it is, using

CAREER INTERESTS

UX Research & Design
Graphic Design
Programming & Scripting
Digital Audio Engineering
Electronic Engineering

TOOLS

Adobe Audition | Photoshop | XD
Sketch | InVision | Balsamiq
Python | C | SQL
HTML | CSS | PHP
MS Excel | Google Sheets

EDUCATION

MS in Information Studies | **UX Research & Design**
University of Texas at Austin: 2017 - 2019

BS in Electrical and Computer Engineering | **Digital Signal Processing**
New Mexico State University: 2012 - 2016

SELECTED PROJECTS

Individual Mobile App Design Sprint - "ZakyApp"

Companion app prototype, satisfying requirements from NurturedByDesign for the Zaky: a wearable biometric device for babies. Design stages: requirements gathering, competitive analysis, scenario mapping, wireframing, low-fi prototyping, usability testing, high-fi prototyping.
Tools: Adobe XD | InVision

Group Mobile App Design - "Motivatr"

Prototype based on full UX design cycle. Stages: contextual inquiry, competitive analysis, user research, wireframing, low-fi prototyping, hi-fi prototyping, usability testing, and design refinement.
Tools: Balsamiq | Sketch | InVision

Research Project - Biometrics and Visual Design

Research project utilizing eye tracking hardware and software in order to probe the relationship between a subject's biometric markers (positional eye tracking, heart rate, galvanic skin response, and emotional facial recognition) and the subject's declared assessment of website visual designs.
Tools: Tobii Eye Tracking Hardware | iMotions Research Platform

Graduate Capstone Project - "BabyBot"

Partnered with UT Psychology department to initiate UX-focused research into the future creation of a postpartum intervention chatbot application. Conducted research and interviews with Postpartum Support International helpline staff, collected and analyzed research to inform the design and engineering process for the AI-enabled chatbot.
Tools: Adobe XD

Undergraduate Capstone Project - "SpeakerBus"

Augmented existing surround sound installations with additional speakers via central transmitter-multiplexor. Receiver, coupled with DC powered speakers reconstructs signal and plays one channel. Realized with software simulation and prototype electronic circuits.
Tools: GNU Radio Software | Ettus RF Hardware

PROFESSIONAL EXPERIENCE

ECE DEPARTMENT WEBMASTER
New Mexico State University: 2014 - 2016

- Oversaw migration of departmental website to a new, more modern hosting service
- Created web content for current events, staff awards, and departmental announcements
- Edited web content to ensure adherence to University policies

INCA CUBESAT EMBEDDED SYSTEM PROGRAMMER
New Mexico State University: 2015

- Wrote system clock, error management, and other functions in C++ environment 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: 2015

- Coordinated with ECE professors to test and demonstrate MIT Lincoln Labs DIY radar kit to incoming engineering students
- Instructed students in corporate entrepreneurship, utilization of Business Model Canvas and introductory systems engineering practices
- Worked with local vendors, university administration and faculty to plan seven-day workshop for 30 incoming student participants