

# BROOKE COCHRAN

630-247-3888

[brco2020@colorado.edu](mailto:brco2020@colorado.edu)

<https://brco2020.wixsite.com/website>

## EDUCATION

**2019-2022**

**University of Colorado Boulder**

*BS Electrical Engineering &  
Creative Technology Design*

**Jan - May 2022**

**University of Glasgow**

*Electrical Engineering*

## SKILLS

**Co-Author:** The Astrophysical  
Journal, ASEE Inclusive Assessments  
Conference Paper

**Software:** Dimatix™ Drop Watch-  
er, Altium, C++, Matlab, JavaScript,  
Arduino, Adobe Photoshop, Adobe  
XD, LTSpice, Eagle, WIX Website  
Builder

**Projects:** EMDR Remote Therapy  
Device, Fly-Fishing Cast Trainer, Plant  
Stimulation, BalloonSat, Capstone  
VOA Manual Attenuation device.

*See my website for more project info!*

## REFERENCES

**Cassandra McCall**

[CASSANDRA.MCCALL@USU.EDU](mailto:CASSANDRA.MCCALL@USU.EDU)

+1 (605) 890 -1464

**Eloise Bihar**

[ELOISE.BIHAR@COLORADO.EDU](mailto:ELOISE.BIHAR@COLORADO.EDU)

+1 (720) 490 - 2777

**Russle Bautch**

[RUSS.BAUTCH@GMAIL.COM](mailto:RUSS.BAUTCH@GMAIL.COM)

+1 (312) 925 - 0016

## EXPERIENCE

*June 2022 – Present*

CU Boulder

### **Sensitive Plant Stimulation**

#### **Designated Learning Assistant**

- Modified existing circuits from PHD students and design more power efficient solutions
- **Managed project development** and optimization requirements for undergraduates
- Experience using Altium and altering existing files

*May – Jul 2021*

Utah State

University

### **Research Experience for Undergraduates**

#### **Inclusive Assessments in Engineering**

- Developed an understanding of the inherent and socio-cultural bias in core engineering courses, focusing on the impact of assessment methods on a students' engineering identity
- Interviewed former students of Mechanics and Materials course using a collaboratively created interview protocol
- Coded the qualitative interview data using assessment models previously analyzed in literature reviews
- Co-Author of ASEE conference paper regarding Inclusive Assessments

*Jun – Dec 2021*

CU Boulder

### **Social and Digital Media Coordinator**

#### **TeachEngineering™**

- Designed posts for all social media platforms including Facebook, Instagram, Pinterest, Twitter, and LinkedIn to promote K-12 engineering projects on TeachEngineering's youtube channel
- Targeted different audiences through analyzing the engagement data on each platform weekly
- Collaborated with student video creators on campaign planning, execution, and reporting

*Apr – Aug 2020*

CU Boulder

### **Research Assistant**

#### **Timmerhaus K-12 Engineering Education Outreach**

- Investigated highschool drop-out prevention in the most low-income areas of Colorado for homeless, fostercare, and incarcerated youths
- Explored pre-collegiate programs designed to encourage first generation students to pursue secondary education
- Performed virtual outreach to rural Colorado communities to engage K-12 students in STEM
- Constructed and developed custom website for STEM resources