MAXWELL PALEN ANDERSON

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EDUCATION

University of Colorado, Master of Science in Mechan Bachelor of Science in Mech	Boulder nical Engineering — Robotics and Controls Focus anical Engineering — Engineering Honors Program	Expected 2023 05/2022 — GPA: 3.536
WORK EXPERIENCE		
Student Research Intern: NorthWest Research Associates		06/2021 - 08/2022
Software development, datDeveloped standardized filCalculated and analyzed s	a collection, and data analysis on atmospheric data. e formats, naming conventions, and data structures. econd order statistics to evaluate micro-meteorological th	neories.
Undergraduate Research	ner: Advanced Medical Technologies Laboratory	03/2019 - $05/2021$
 Conducted biomedical and Designed novel experiment Designed a novel electrom → Sundaram V, Ly K, John Magnetic Sensing for Feedbar 	al platforms for manufacturing, data collection, and sense echanical tether for a robotic capsule endoscope. Inson B, Naris M, Anderson MP , Humbert S, Correll N ack Control of Soft HASEL Actuators, <i>IEEE Transaction</i>	or calibration. , Rentschler M, Embedded <i>is on Robotics</i> , 2022.
Soft Robot for Minimall	v Invasive Surgerv	2021-2022
Research & Development: Project Management: Industry Clients: Prototyping:	Developed a soft robot that can perform complex actual Technical Lead: Lead design discussions, finalized decis Team communication manager in charge of working with 55+ prototypes: Iteration, optimization, and qualitative	ation based on research. ions, coordinated team. th our three clients. e/quantitative testing.
Linear Displacement Co	rrelation Platform	2021
Scholarly Publication: Time Management: Mechanical Design:	Work earned a co-authorship on a paper published in II Ensured completion of design and fabrication on limited Designed a mechanism that displaces a magnet at 0.1 m	EEE T-RO. d three week schedule. nm increments.
Calibration of Magnetor	neter and Magnetic Sensing Skin for Soft Actuate	ors 2020
Calibration Validation: Design Requirements: Technical Writing:	Developed validation procedures to assess accuracy of calibration method. Designed calibration platform using only magnetically inert materials. Prepared and submitted research proposal to the Biological Sciences Initiative.	
Robotic Capsule Endoscope (RCE) Tether		2019
CAD & Manufacturing: Iterative Design: Collaboration:	Generated CAD and engineering drawings to manufact Developed a novel tether that was thin, flexible, with co Integrated individual and collaborative work in an ongo	ure unique hardware. oncentric tooling channel. ping research project.
AWARDS		
BSI Scholars ContinuationBiological Sciences Initiati	Funding, \$2500. Funding for work on Mag-skin project. ve Scholars Award, \$2500. Funding for work on RCE tet	2020 - 2021 her project. 2019

TECHNICAL STRENGTHS

Rapid Prototyping CAD & Technical Drawings Manufacturing Methods Software & Tools Programming Languages 3D Printing: Stereolithography & Filament Deposition, Laser Cutting Certified SolidWorks Associate, GD&T, Ordinate Dimensioning Lathes, Mills, Band & Miter Saws, Drill Presses, CNC Routing Arduino, Corel Draw, Excel, Latex, HTML, CSS MatLab, C++