



Engineering & Applied Science  
UNIVERSITY OF COLORADO



**AS01: Suborbital Photography  
for Crew Experience (SP4CE)**

Aneesh Balla  
Jesse Bartlett  
Gio Borrani  
Jasmin Chadha  
Ryan Charles  
Zach Fields  
Cesario Garcia  
Vicki Hurd  
Jack Lana  
Sarah Leary  
Blue Origin

**AS02: Tactical Autopilot Long-  
Term Overwatch Network  
(TALON)**

Jason Peloquin  
John Oliver  
Selmo Almeida  
Anthony Danna  
Collin Kasunic  
Patrick Tippens  
Ethan Fleer  
Vyacheslav "Slava" Rychenko  
Dante Vigil

# A a E (AS)

## AS13: All-Electric ROver for Sample Storage (AEROSS)

David Koester  
Ricardo Lopez Abadia  
Aaron Buller  
Adam Trunko  
Max Malden  
Patrick Riley  
Emily Mitzak  
Owen Kaufmann  
Keaton Paquin  
Benjamin Lodwick  
Jet Propulsion Laboratory

## AS14: Astro-Robotic Garden Harvester (ARGH)

Aurash Filsoof  
Kyle Fingerhut  
Noah Kendall  
Evan Luebbert  
Cameron Mithcell  
Samuel Oberg  
Connor O'Reilly  
Dominic (Dom) Plaia  
Collin Rasbid  
Evan Shults  
Thomas Shepard  
Panitnan (Pan) Yuvanondha  
Sierra Space

## AS15: Gravity Of oading and Tethering Somatosensory Enhancement System (GOATSES)

Grace Antonucci  
Quentin Morton  
Elena Salgado  
Cody Wheeler  
Ben Foehr  
August Hauter  
Jack Harrison  
Ike Timko  
Nick Taylor  
CU Bioastronautics Department

## AS16: Stored Battery Monitoring System (SBMS)

Jamie Henault  
Nathan Zhao  
Ben Gavin  
Devin Geegan  
Evan Meany  
Ian Adler  
Richard Folsom  
Joseph Harrell  
Shreeyash Nadella  
EnerSys ABSL

## AS17: Ground station Ranged Assessment Satellite Simulator (GRASS)

Carter Mak  
Trey Taylor  
Addison Conzet  
Cole Sechrist  
Daniel Mathews  
Ruben Briones  
Eric Roeck  
Sam Packard  
Wil Edwards  
Madisen Purifoy-Frie  
Marissa Palamara  
Gavin O'Connell  
Raytheon Technologies

## AS18: Drone Recharging Operational Payload System (DROPS)

Cody Watson  
Nate Kuczun  
Alexander Karas  
Caroline Dixon  
Sid AroraRafael  
Figueroa Gonzalez  
Daniel Gutierrez Mendoza  
Dominic Dougherty  
Ian Chakraborty  
Ben Capeloto  
Mia Abouhamad  
Josh Schmitz  
TB2 Aerospace

# A a E (AS)

## AS19: Ski jump Athletic Development Interface (SKADI)

Michael Schlittenhart  
Mary Sobernheim  
Maya Greenstein  
Landon Nurge  
Max Page  
Joaquin Ramirez  
Julia Sheeran  
Hunter Daboll  
USA Nordic

# C U S (CS)

## CS01: Evaluating Cutting Edge Positioning Technology

In Ji Chung  
Jacob Bonner  
Jake Swartwout  
Bradley Ma  
Robert Meikle  
Thomas Deaner  
BI Incorporated

## CS02: VR House Simulation/ Data Visualization in VR

Yongqi Yu  
Ilya Zinyakin  
Nicolas Price  
Johnny Chabin  
Gregorio Figueroa  
Zach Richardson  
BI Incorporated

## CS03: Crime Maps

Anton Machkasov  
Layan Makhtoum  
Andres Montealegre  
Wesley Shen  
Tyler Tomlin  
Leon Shen  
Caliber Public Safety

## CS04: Pediatric Tracheostomy Complications Training Simulator

Tobias Jacobson  
William Francis  
Katelyn Singh  
Jessie Ryce  
Jack Humphrey  
Childrens Hospital Colorado

# C E (CV)

## CM50: Mesa County ADA Transition Plan

Evan Lavin  
Kellisha Ostler  
Lauren Schott  
Mesa County Public Works

## CS05: Predictive Analytics Solution

Yibo Yang  
Emma King  
Jacob Reynolds  
Jacob Klus  
Parker Morris  
Evan Linden  
Congruex

## CS06: FaceRace

Logan Mann  
Naif Alassaf  
Yosan Russom  
Ryan Drew  
CU Boulder Psych Department

C U S (CS)

**CS07: BATS Collect**

Vanessa Reyes  
Priscila Trevino  
Connor Horn  
Edward Alder  
Salvatore Pacifico  
Amy Dunbar-Wallis, CU Ecology  
and Evolutionary Biology

CS08: Romanticism in the Tropics >>BDC 0 -1.556 TD [Circosephine Martior Horn]TD [(V)ifan Chen >>BDC 0 -1.556 TD [CircPiscila Tan >>BDC 0 -1.556 TD [Circ  
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# E a, C u & E E (EE)

## EE01: FID Frequency Extraction Engine

Phaedra Curlin  
John Lettang  
XuTao Ho  
David Schmitt  
Dreightyn Godfrey  
Nanu Dahal  
FieldLine Inc.

## EE02: Electric Vehicle Ecosystem Exhibit

Noah Saidy  
Alexander Burg  
Maxwell Pettit  
Dafna Margalit  
Carson Syberg  
Mickey Brown  
Mission Zero

## EE03: Particulate Patrol

Sydney Evans  
Ella Wawrzynek  
Zach Sents  
Will Pryor  
Athena Parker  
Kat Edfors  
Eric Bogatin

## EE04: Implement Pose Device (IPD)

Ben Rautio  
Cousteau Reinig  
Jiamiao He  
Sam Freed  
Alexander Bork  
Tim Bauer  
Trimble Autonomous Solutions

## EE05: 3-axis Flying Bulls Eye

High Performance Electronic Test and Measurement System  
Kanin McGuire  
Connor Peskin  
Samuel Diaz  
Aditya Gopalan  
Aidan King  
Wade Pearce  
Samtec

## EE06: Robotic Nurse Assistant

Dustin Horn  
Nick Machemer  
Alex England  
Hasan Khadadah  
Maurice Takeda  
Michael Lucky  
Medtronic

## EE07: Process Monitor Droid

Gabriel Altman  
Darren Schultz  
Amanda Sterling  
Christian Polanco  
Hannah Shahba  
Sanmina

## EE08: Helios and the Bumble Bot

Michael Stewart  
Nicholas Wroblewski  
Rosie Setter  
Isaiah Montejano  
Evan Williams  
Nathan Elsen  
Animal Inspired Movement and Robotics Laboratory

## EE09: The FRANKLIN

Matt Hartnett  
Elisabetta Medici  
Case Chrisbacher  
Aileen Ma  
Eytan Mizrahi  
Blake Novak  
Albin Gasiewski

## EE10: Monitor Pods

Brad Oren  
Adam Chehadi  
Michael Marques  
Sam Siemer  
Augustus Hartgrove  
Miles Bush  
Amazon

## EE11: DESTINY

Joe Cordaro  
Luis Mendez  
Aidan Rogers  
John Carberry  
Trey Venners  
Ali Alalwan  
Eric Bogatin

## EE12: Orpheus

Rylee Beach  
James Brennan  
Lena Hunicke-Smith  
Anirudh Kapoor  
Stephen Lasko

# M a a E (ME)

**CM48** Vertical Bike Rack Wheel Basket  
Chance Lewis  
Quintin Kurtz  
Colt Futter  
RockyMounts

**CM49** Prototype Electric Motor Dynamometer  
Parker Smith  
Julio Puentes  
Sean Bohling  
Danfoss

**ME01: Machine Chip Disposal System**  
Aleksy Volkov  
Andrew Stiller  
Wesley Schumacher  
Kate Nichols  
Blake Fardulis  
Casey Cole  
Matthew An  
Accu-Precision

**ME02: Deformable Surgical Needle**  
Ian Sanford  
Nic Rutkoski  
Trey Nevitt  
Jose Soto  
Carl Savage  
Catherine Rieke  
Children's Hospital Colorado

**ME04: Modular Filler/Extractor**  
Jordan Jalufka  
Kyi Soe  
Jackson Prescott  
Alekh Nagarkar  
Anthony Nguyen  
Blake Adams  
Festo

**ME05: Pneumatic Attack Tool**  
Courtney Cooper  
Danielle Burke  
Nick Doff ng  
Maggie Hubbeling  
Jacob Semrow  
Timothy Cooper  
Los Alamos National Laboratories

**ME06: Lighted Electrosurgical Pencil**  
Anthony Arnopoulos  
Evan Wetzel  
Ami Tat  
Quinton Uradomo  
Dexter Budrys  
Eric Swanson  
Landon Cramer  
Aashay Choksi  
Abhi Kumar  
Medtronic

**ME07: A Soft Robot for Surgical Interventions**  
Maxwell P. Anderson  
Sean Dunkelman  
Isaac Martinez  
Caitlyn Robinson  
Bradley Nam  
William Watkins  
William Wang

Christopher Gonzalez-Millan  
Ren e Schnettler  
Brady King  
Medtronic

**ME08: Dry land Hockey Sled**  
Parker Saltiel  
Abdulrhan Almutawtah  
Alana Brummel  
Salvador Vargas  
Ryan Thompson  
Ryan Wells  
Andrew Beiter  
QL+

**ME09: Project Index**  
Haley Passov  
Kelly Sikora  
Jose Sandoval  
Emmalie Markham  
Isaai Urbina  
Ahmad Alhashmi  
Cullen Flynn  
Nate Gillaspy  
Quality of Life Plus

# M a a E (ME)

**ME10: Deployable Baf e and Lens Alignment System**  
Jack deBloois  
Patrick Murphy  
Kenny Colanto  
Isaac Brighton  
Isaac Gordon  
Max Nyffenegger  
Connor Jarolimek  
Sandia National Laboratories

**ME11: Space Based Optical Alignment and Deployable Baf e**  
Sean Barton  
Hagan Kolanz  
Tyler Greene  
Nick Moraga  
Alex Kelling  
Antoni Meyer  
Matthew Tonn  
Sandia National Laboratories

**ME12: Cessna Citation CJ4 Seat Mount**  
Hannah Badger  
Tyler Cash  
Bryce Gallo  
Ethan Hall  
Clare Hudson  
Chris Keating  
Melvin Vang  
Katie Simon  
Textron Aviation

**ME13** Autonomous device/ system for ground-based War ghter protection, supply and/or evacuation  
Liam Vlasimsky  
Abby Browne  
Nate DeCecco  
Steele Brizzolara-Dove  
Wilson Long  
Ben Massik  
Gabe Williams  
Jaskrit Singh  
Thomas Gira  
United States Army Research Of ce

**ME14** SAE Baja  
David Betz  
Ethan Stein  
Evan Bickel  
Patrick McSpadden  
Tyler Merchant  
Joseph Sullivan  
Matthew Gilster  
Max Ptasiewicz  
Stolle Machinery

**ME15: GmAPD Thermal Management Study**  
Ben Carnicelli  
Galen Graham-Bell  
Josh Sloat  
Sim Sulwer  
Ben Hall  
Riley McVaugh  
Ball Aerospace

**ME16: SMARTCubeS**  
Ryan Oroke  
Cole Smith  
Corey Schroeder  
Garrett Schmitz  
Jake Thames  
Holly Young  
Grant Maclachlan  
Johnathan Neptune  
Brody Austin  
Jared Baumert  
Jet Propulsion Laboratory

**ME17: Silicon Wafer Center-Finding Improvement**  
Jack Carver  
Dario Garcia  
Ethan Plott  
Hank Kussin-Bordo  
Noah Sgambellone  
Prem Griddalur  
Marty LaRocque  
Gavin Zimmerman  
KLA

**ME18: Passive Shock Switch**  
Zach Majors  
Ricky Orban  
Justin McMahon  
Luc Bollen  
Ayla Gotoh-Mack  
Greg Textoris  
Los Alamos National Laboratory

# M a a E (ME)

## ME19: Deployable Helical Antenna

Gillian Grace T. Brachocki  
Nicolas Garziona  
Hector Calar  
Caleb Morford  
Ayden Flynn  
Ahmed Bechir Ferjani  
Manuel Preston de Miranda  
Isaac Nagel-Brice  
Jackson Bilello  
Benjamin Capek  
Lockheed Martin Space

Desmond McReynolds  
John Schlaerth  
Ben Fonte  
Zack Lindsay  
Kellen Monestime  
Connor Krause  
Phillip Wu  
Tobin Price  
Sam Feig  
NOAA

## ME20: Electrosurgical Generator Electromechanical Load

Patrick Doyle  
Jack Woods  
David Reeder  
Moayad Sindi  
Faisal Fadhil  
Yue Wu  
Reginaldo Rosales  
Micaela V. Bara  
Medtronic

## ME23: Reusable Pacemaker Lead Extraction Device

Hannah Niew  
Noah Johnson  
Claire Richards  
Imaan Sheikh  
Jamie Warren  
AJ Spencer  
Justin Won  
Philips

## ME21: Positioning and Clamping Mechanism for Coriolis Flow Meter Subassembly

Chanel Sturm  
Zachary Klaus  
Aidan Lyons  
Max Karp  
Andrew Karoly  
Jonathan Zimmer  
Caroline Norris  
MicroMotion

## ME24: Magnetic Field Steering System

Andrew Fine  
Trevor Peterson  
Thomas Brewster  
Cole Sites  
Dean Allison  
Steven Coyan  
Nick Elsasser  
Aaron Li  
Nate Howard  
FieldLine Inc

## ME25: Wind Turbine Blade Tip Tracker

Austin Spafford  
Elena Stirk  
Joel Carlson  
Josh Umiamaka  
Keaton Jones  
Eric Wagner  
Alexei Kazantsev  
Justin Hall  
William Dellinger  
Siemens Gamesa Renewable Energy

## ME26: Reinfusion Module

Kieran Weiszmann  
Cordelia Kim  
Dominic Scolari  
Luke Veratti  
Iain Morgan  
Joel Trantham  
Bridget Cain  
Terumo BCT

## ME27: How to get rid-of ovality of the tubing received on the spool and before it gets on to the automation.

Isaiah Curtis  
Kyle Mcdonnell  
Yiwen Shen  
Alex Seymour  
Brad Kittrell  
Nick Brahill  
Terumo BCT

# M a a E (ME)

## ME28: Collegiate Wind Competition

Aaron Schwan  
Alec Kostovny  
Anika Levy  
Charles Candon  
Erik Feiereisen  
Luke Walker  
Graham Blanco  
Kirolos Gerges  
Simon Grzebien  
Claire Isenhardt  
Collegiate Wind Competition

## ME40: Acoustically Actuated Transfection Device

Pete Snyder  
Owen Grace  
Jacob Allen  
Andrew Virden  
Sean Spindler  
AcoustaMed

## ME41: Big SUR

Heather Hunt  
Dorothea French  
Josh Ayers  
Justin Kirchner  
Zach Sorscher  
Jacob Lawrence  
Urchin Merchants

## ME42: Thermoelectric Cooling Vest

Alexander Hernacki  
Paula P rez  
Aven Hart  
Ethan Street  
Maia Freedberg  
Jacqueline Solis-Armenta  
Rime Systems

## ME43: PeJ EMC /P <</Lang (en-US)/MCID 1321 >>BeOwenGra





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