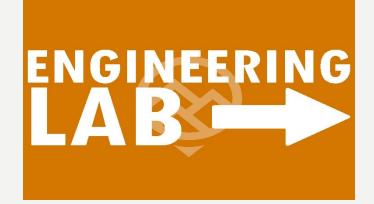
ENGREERINGLAB a Industria GENTER

DR. CARL WHITESEL - ENGINEERING PROGRAM COORDINATOR ENG. SUZAN ALLAHAM-ENGINEERING LAB MANAGER

WHERE ARE WE?

IS Building

Engineering Lab and Innovation Center



Follow LAB Sign

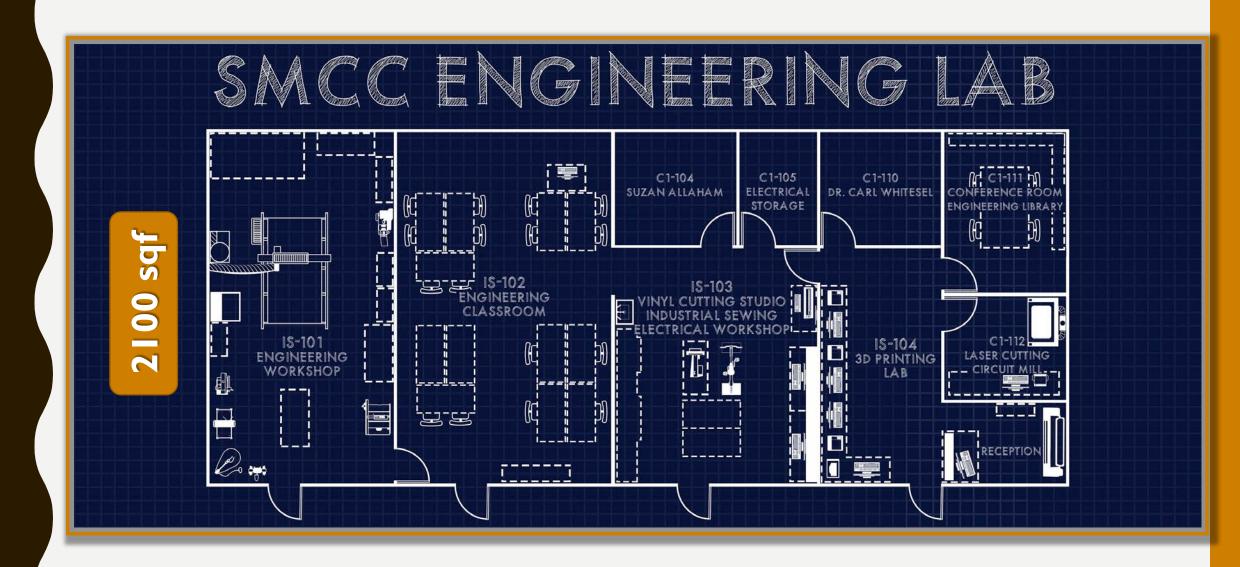


WHO ARE WE SERVING?

South Mountain Community College (SMCC) – 3 Campuses

- Students
- Faculty
- Stuff
- Community

HOW BIG IS OUR LAB?



LAB'S HISTORY!

2016 Planning 2017 Establishment 2018 Execution

2019 Outreach

Summer 2016

- Relationship formed with Base11
- Desire to provide equipment for STEM-trained students

Winter 2016

 Dr. Carl Whitesel brought on the team to guide this project

2016 PLANNING

Spring 2017

 Outreach and support from local companies and employers established.

Summer 2017

Training with Base11

- Relationships with other college partners formed – Skyline College, Orange Coast College.
- Relationships with world-wide industrial partners established – Dassault Systemes.

Fall 2017

 Final requirements to accept lab donation completed.

2017 ESTABLISHMENT

January 2018

- Equipment delivered and installed
- Retail value \$250,000.

Spring 2018

Faculty training on equipment.

Summer 2018

 Prop301 grant received to supplement and expand lab equipment.

Fall 2018

 "Soft" opening to all Engineering students and non-Engineering students.

2018 EXECUTION

Spring 2019

- Continued growth and reach our more student.
- Created Lab Logo.

Summer 2019

- Engineering Club 2 weeks.
- College Camp 2 weeks.

2019 OUTREACH

WHAT WE HAVE?

Machines

8

Tools

HP DESIGN JET T1700 PLOTTER PRINTER





- Sign in and fill out student waiver before entering workshop.
- Get insturctor's permission before opening or using any tools.
- Wear proper attire and PPE.
- Read instructor's manual before
- using any heavy machinery.

 Do not operate heavy machinery when class is in session.
- No food or drink in lab.
- Clean up after yourself and put away any tools not in-use.





SINDOH DP200 3D PRINTERS





MAKERBOT 3D PRINTER & DIGITIZER





EPILOG LASER FUSION MODEL M2





MONOFAB - PRECISION MILL



VINYL CUTTER





BERNINA B535 BERNINA EMBROIDERY L450



SHOPBOT CNC MILL







POWER TOOLS

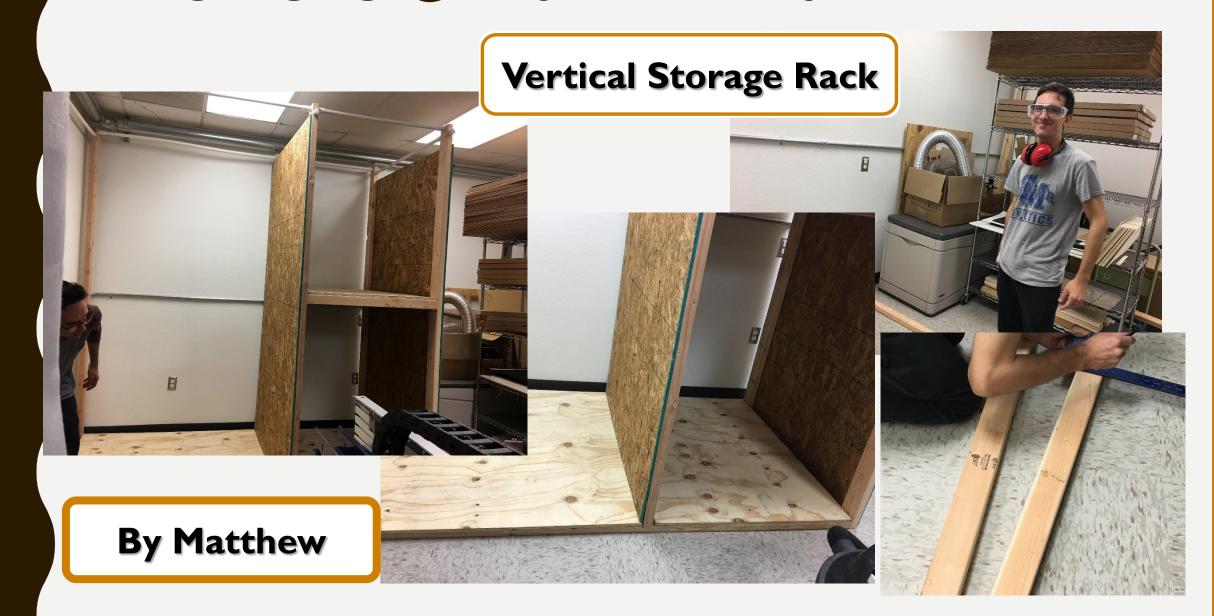




Wooden Arch Bridge



By ECE214 Class



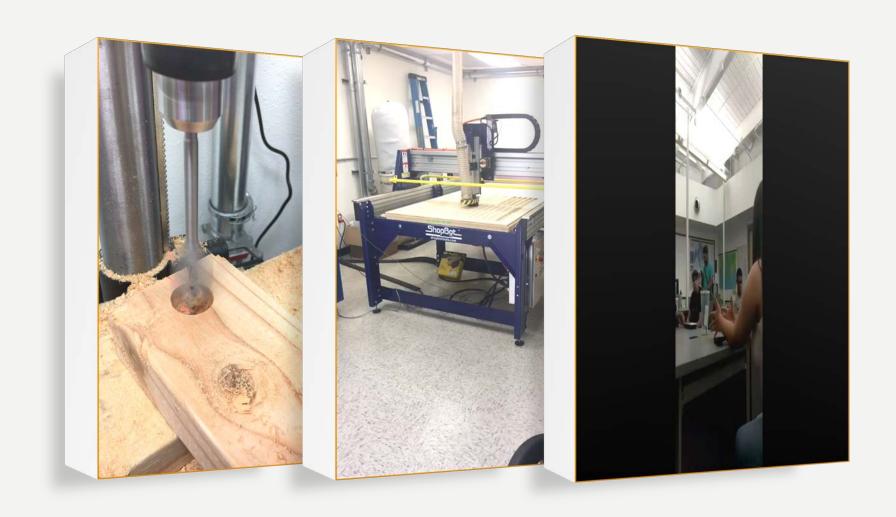




Holiday Coasters



VIDEOING OUR WORK



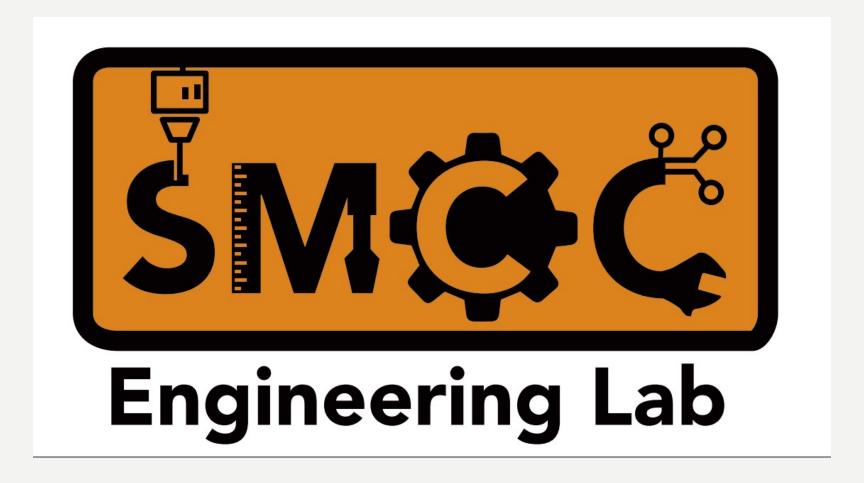
FRIDAYS @ ENGINEERING LAB





ENGINEERING LAB LOGO CONTEST

The winner is Sam Ekhle.







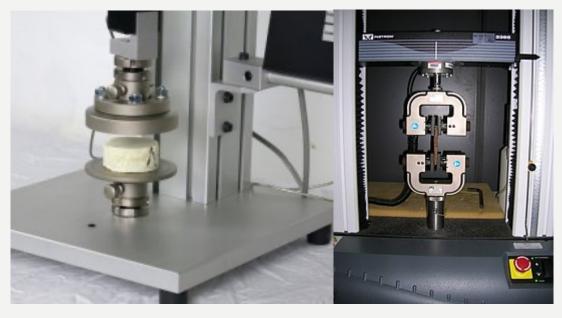


THE PRIZE

COMING SOON.....

- ✓ Industrial Wind Tunnel is arrived and under process to place it in lab's new building
- ✓ Grant funding for mechanical test equipment, but not limited to:
 - Tensile strength
 - o Compression strength
 - o Inertia





All above photos are only indicator

ENGINEERING PROGRAM TEAM







Dr. Carl Whitesel Program Coordinator Prof. Suzan Allaham Lab Manager Adjunct Faculty

Prof. Patrick Grates
Adjunct Faculty

STUDENTS



Matthew Spadafino
Student Work Study – Daily
operation of lab

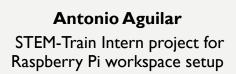


Mariaysela Varela
STEM-Train Intern project for mechanics of materials



CPLC Internship Student - Daily operation of lab

Dawit Gemeda



LAB'S VOLUNTEERS







Day	Time
Monday	8:00 A.M. – 5:00 P.M.
Tuesday	8:00 A.M. – 5:00 P.M.
Wednesday	8:00 A.M. – 5:00 P.M.
Thursday	8:00 A.M. – 5:00 P.M.
Friday	8:00 A.M. – 3:00 P.M.

LAB'S GENERAL OPERATING HOURS

Day	Time
Monday	7:00 A.M. – 5:30 P.M.
Tuesday	7:00 A.M. – 5:30 P.M.
Wednesday	7:00 A.M. – 5:30 P.M.
Thursday	7:00 A.M. – 5:30 P.M.
Friday	Closed

LAB'S SUMMER SCHEDULE OPERATING HOURS

THANKYOU

PROGRAM COORDINATOR

<u>CWHITESEL@SOUTHMOUNTAINCC.EDU</u>

OFFICE: 6022438295

LAB MANAGER
SUZAN.ALLAHAM@SOUTHMOUNTAINCC.EDU
OFFICE:6022438030