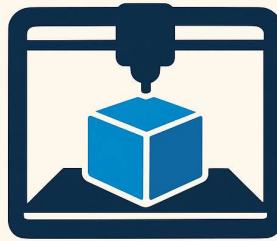


WELCOME

Adventures in



P3DP

PLATEAU 3D PRINTERS

P3DP.org

Plateau 3D Printers p3dp.org

ACE

National initiative for machine tool technology development and advancement

Supported by the Department of Defense Industrial Base Analysis and Sustainment (IBAS) Program from the Office of Industrial Policy

Based at Oak Ridge National Laboratory (ORNL) Manufacturing Demonstration Facility (MDF)

 DOE user facility for developing and validating systems and processes for manufacturing innovation

Work force development activities managed by IACMI – The Composites Institute

ACE is intended to help the United States recover the technical and manufacturing leadership position and enable our ability to design and make the machine tools required to produce so many of the products that are used in modern society. – Adele Ratcliff, IBAS program director



Introductions

Your instructors

- Jose Nazario – UTK Professor
- Joshua Hoekstra – UTK Mechanical Engineering Student
- Madison Solano- UTK Aerospace Engineering Student
- David Roberson – IACMI ACE machining instructor
- Peter Soroka – RSCC instructor

DATE: TBD

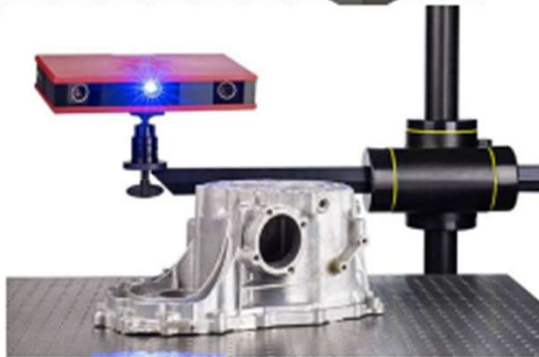
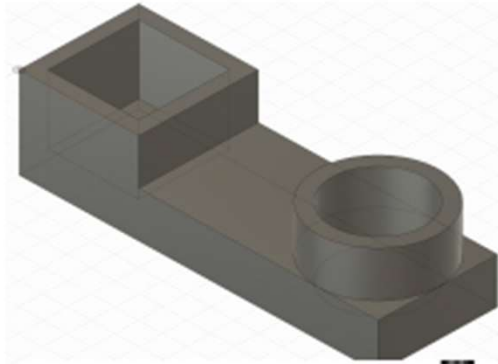


METROLOGY

Access information

File access for Google sheet measurement data entry

https://docs.google.com/spreadsheets/d/1sEUFNQshu8TX09Iode6SzSr_QlG_4pKo2G-9pweeXsc/edit?usp=sharing

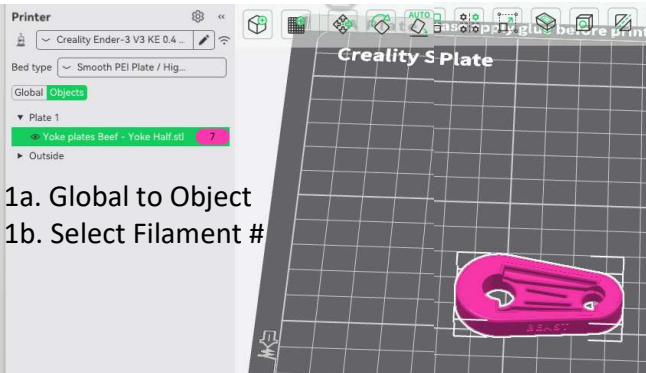




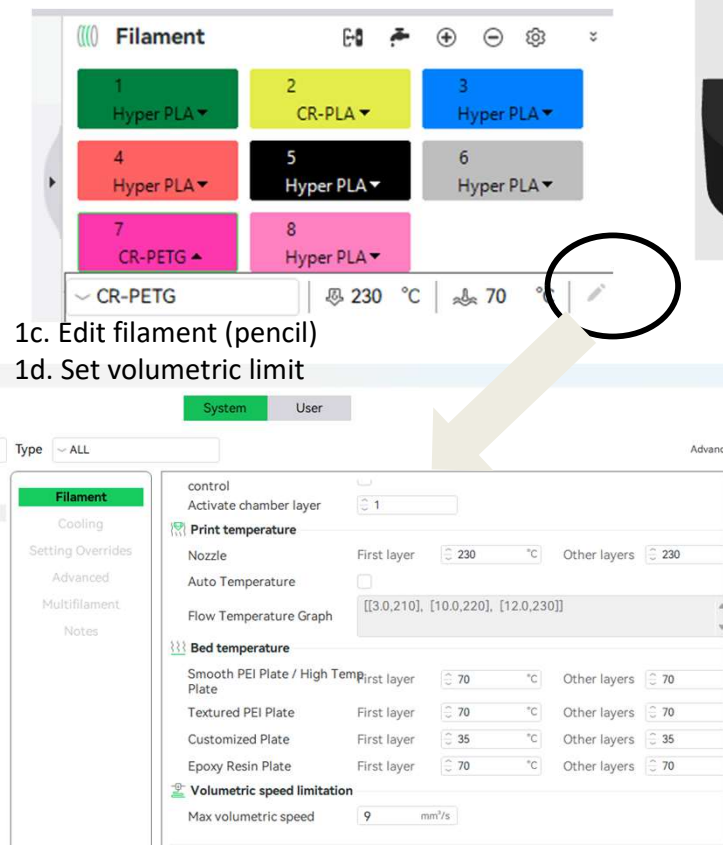
TUNING TEST CASES

27FEB2026

1. PETG Material Selection

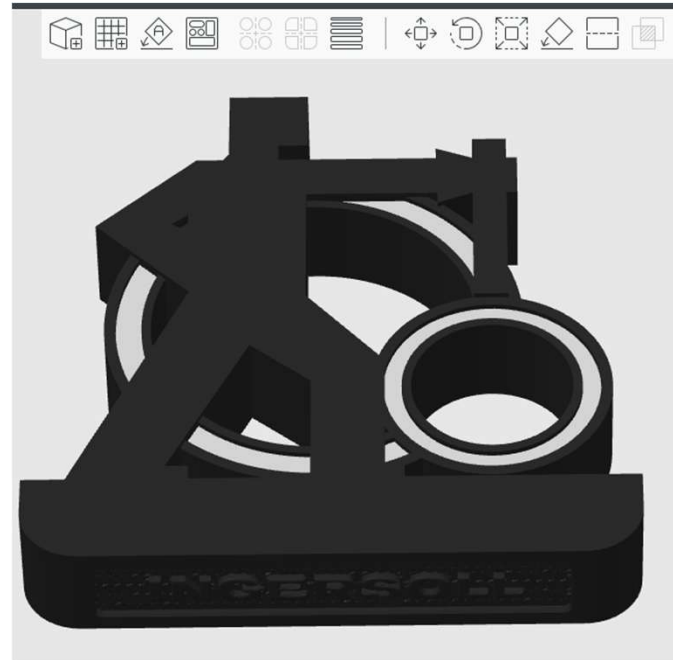


1a. Global to Object
1b. Select Filament #

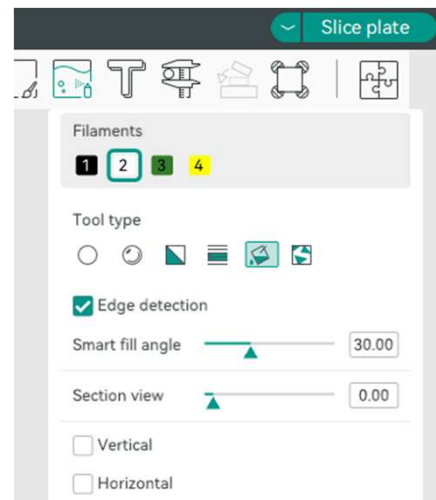


1c. Edit filament (pencil)
1d. Set volumetric limit

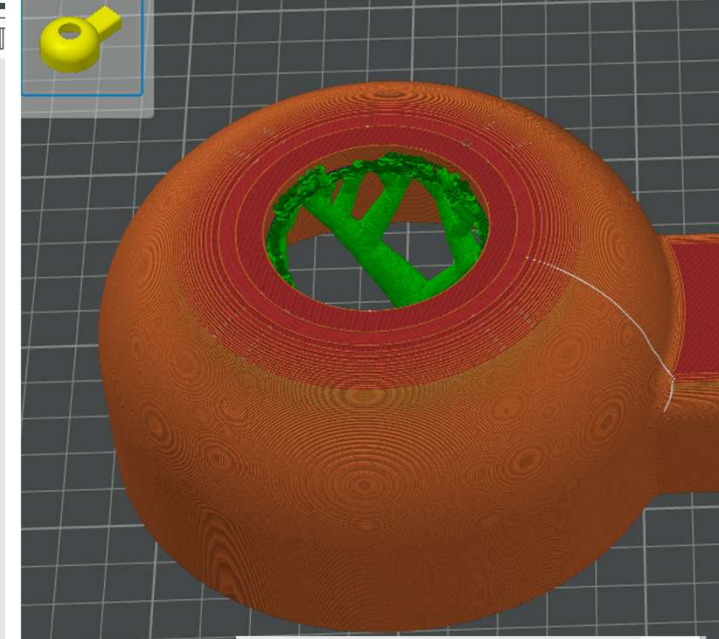
2. IRON MAN Color Painting



2a: Color Painting
2b. Select filament color
2c. Select Paint can



3. Headlight Bezel Support Painting



3. GLOBAL
3a: Enable Support
3b. Select Tree(manual)
3c. Select support Painting
3d. Set brush size
3e. Paint flat
3f. Slice plate

