

SAMPE Additive Manufacturing Competition Design Summary

Name: [Your Name](#)

Email: [YourEmailAddress@mail.com](#)

School: [Your School's Name](#)

Registration Number: [Your Number will be 11 characters and include both numbers and letters](#)

Faculty Advisor: [Your Advisor's Name](#)

Faculty Email: [YourAdvisorsEmailAddress@mail.com](#)

Visual depiction of your design:

[Picture\(s\) Go Here](#)
(with scale AND print direction)

Print Parameters and Orientation:

Any specific print parameters or print orientation you would like for Stratasys to use when printing your submission. See AMC rules document for defaults.

Written description of your design:

Why did you choose it? What makes it unique?

Calculation of your design's structural capability.

Must include failure mode prediction and show the relevant calculations performed. For example, a long column or support element should be analyzed for both compression strength and bulking strength.

Column Information:

	Units	Value
Weight	g	Here
Load Capacity	lb	Here
Height	in	Here
Diameter	in	Here
Number of Parts		Here
Cross-Sectional Area	in ²	Here
Moment of inertia	in ⁴	Here
Modulus	Msi	Here

Compression Failure:

[Your calculations Here](#)

Buckling Failure (Assuming pinned-pinned):

Euler column formula:

[Your calculations Here](#)

C=? for this loading case.

Estimated print time:

Your calculations **Here**