Regulated Research Institutional/Industrial Setting Form (1C)

This form must be completed AFTER experimentation by the adult supervising the student research conducted in a regulated research institution, industrial setting or any work site other than home, school or field.

Student's Nar			
Title of Project	Validation of High Order Theories for Sandwich Beam Bending Behavior Using Direct Image Correlati	on (DIC) Techn	iques
To be comple (Responses mu	ted by the Supervising Adult in the Setting (NOT the Student(s)) after experiment to be displayed at student's project booth; please do not project booth; please	e ntation: orint double-	sided.)
 Did you or substantial a. If no, d his/her 	conducted research at my work site: your proxy (e.g. graduate student, postdoc, employee) mentor or provide guidance to the student researcher? escribe your and/or your institution's role with the student researcher and r project (e.g. supervised use of equipment on site without ongoing mentorship in below.	☑ Yes	□ Ño
Ti.			
b. If yes,	complete questions 2 – 5.		
Use questi	ent's research project a subset of your ongoing research or work? ons 3, 4 and 5 to detail how the student's project was similar and/or rom ongoing research or work at your site.	☐ Yes	☑ No
Describe t a. develo	he independence and creativity with which the student: pped the hypotheses or engineering goals for the research project		
resea which	nypothesis was developed by the student and the arch mentor following review of prior publications in the theories examined in the investigation were loped and published.		¥:
b. design	ned the methodology for his/her research project		
meth proce and	student and the research mentor developed the nodology for the research project, adapting edures to the equipment available in the laboratory fabricating equipment and parts for the experimental edure as needed.		
c. analyz	red and interpreted data		
expe	student analyzed the data that was gathered in the erimental procedure and formulated conclusions ed on the gathered data in his paper.	2	

(Continued on next page)

Regulated Research Institutional/Industrial Setting Form (1C) Continued

Student's Name(s)	Alex Ta	ng
Student's Name(s)	/ II Q/(I C	5

4. Detail the student's role in conducting the research (e.g. data collection, specific procedures performed). Differentiate what the student observed and what the student actually did.

Alex assisted throughout all portions of the experimentation process. Alex helped prepare the materials to assemble the composite sandwich structures. Alex observed the materials being assembled, as a strong epoxy was used. When the specimen was assembled the specimen was prepared for experimentation. Alex observed the specimen being placed in the universial testing machine. Alex assisted in the optical arrangement, setting up the fiber optics to allow for the specimen to be well illuminated, and assured that the camera was placed truly perpendicular to the specimen. While the universial testing machine was being operated by myself, Alex used the camera to collect the data. After the test was complete Alex was instructed on the data analysis, the first time the data was being analyzed Alex was taught the software. Alex proceduced to run the software in future trials. The results post data processing were discussed extensively with Alex to ensure that he understood the results, and the purpose of the experimentation. Alex then interupted the results on his own further, and expanded his knowledge on the topic through reading various publications about sandwich composite structures.

5. Did the student(s) work on the project as part of a group?

If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

☐ Yes ☐ No

I attest that the student has conducted the work as indicated above and that any required review and approval by institutional regulatory board (IRB/IACUC/IBC) has been obtained. Copies are attached if applicable. I further acknowledge that the student will be presenting this work publicly in competition and I have communicated with the student research regarding any requirements for my review and/or restrictions of what is publicized.

Austin Giordano

Supervising Adult's Printed Name

SUNY Stony Brook University

Institution

100 Nichols rd Stony Brook New York

Address

Graduate Researcher

Title

11/13/19

Date Signed (must be after experimentation) (mm/dd/yy)
sustin.glordeno@stonybrook.edu

Email/Phone