

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 Name(s) Jordan Walsh

Title of Project Human Activity Recognition using Wi-Fi Channel State Information (CSI)

To be completed by the Supervising Adult in the Setting (NOT the Student(s)) after experimentation:

(Responses must be on the form as it is required to be displayed at student's project booth; please do not print double-sided.)

The student(s) conducted research at my work site:

1. Did you or your proxy (e.g. graduate student, postdoc, employee) mentor or provide substantial guidance to the student researcher? ☒ Yes ☐ No
 - a. If no, describe your and/or your institution's role with the student researcher and his/her project (e.g. supervised use of equipment on site without ongoing mentorship and sign below.
 - b. If yes, complete questions 2 – 5.
2. Is the student's research project a subset of your ongoing research or work? ☒ Yes ☐ No

Use questions 3, 4 and 5 to detail how the student's project was similar and/or different from ongoing research or work at your site.
3. Describe the independence and creativity with which the student:
 - a. developed the hypotheses or engineering goals for the research project

I introduced the human activity detection based on channel state information (CSI) estimation to the student, and suggested different situations that he could collect data for. The student and I collaborated to devise the three-way comparison he explores in the project. The student independently explored models in Matlab to classify collected data.
 - b. designed the methodology for his/her research project

The student figured out how to install the necessary software and equipment for collecting data with little outside assistance. The student independently read documentation and devised a plan for collecting CSI data for the three states. He also organized and processed the collected data in Matlab with little assistance.
 - c. analyzed and interpreted data

The student independently generated graphs and figures of his collected data in Matlab to show me his progress and help me to recommend further steps in the project. The student independently validated the accuracy of his models.

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Continued

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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.

The student worked independently in a lab, directly recording CSI data from a Wi-Fi connection. He set up all necessary transmitting and receiving equipment, and supervised the CSI amplitude and phase data collection over the times in which it took place. I helped the student with questions about the results from his collection, but all procedures for recording CSI were carried out directly and independently by him.

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.

Batu K. Chalise

Supervising Adult's Printed Name

Signature

B. Chalise

Assistant Professor

Title

New York Institute of Technology

Institution

10/28/2019

Old Westbury, NY

Address

Date Signed (must be after experimentation) (mm/dd/yy)

bchalise@nyit.edu

Email/Phone