

## Score for Pannuto, Patrick

### Intellectual Merit Criterion

#### Overall Assessment of Intellectual Merit

Excellent

#### Explanation to Applicant

The applicant has an outstanding academic record and the proposal was well written. The applicant has considerable research experience in a diverse set of research project domains. The applicant's ability to plan and conduct research is exceptional as he has served as a coauthor on several conference and journal papers reporting results of projects the applicant has worked on. One of the applicant's references name him as a being a superstar and as being one of the best students the advisor had every worked with.

### Broader Impacts Criterion

#### Overall Assessment of Broader Impacts

Excellent

#### Explanation to Applicant

The applicant has extensive teaching experience and a passion for education and research. He was an Eagle Scout and has a demonstrated record of leadership. The applicants proposed research to separate synchronization and communication to build the Smart building is novel and of interest to a wide audience. It leverages previously published work by the applicant that can be extended to solve problems associated with creating a Smart building.

## Score for Pannuto, Patrick

### Intellectual Merit Criterion

#### Overall Assessment of Intellectual Merit

Excellent

#### Explanation to Applicant

Applicant is well motivated for academic studies and has been involved in research efforts as an undergraduate student. His research has been published as a conference paper. Reference letters also indicate strong potential of applicant in academic life.

Moreover, applicant has has background and resources on developing the proposed research.

### Broader Impacts Criterion

#### Overall Assessment of Broader Impacts

Very Good

#### Explanation to Applicant

Personal statement is not well organized.

Essays could have provided an overview of applicant's goals in expanding the broader impacts of the project beyond the direct beneficiaries of the developed systems/mechanisms. For instance, how will the applicant integrate research and education or broaden opportunities.

## Score for Pannuto, Patrick

### Intellectual Merit Criterion

#### Overall Assessment of Intellectual Merit

Very Good

#### Explanation to Applicant

The intellectual merit of the proposed research project is competitive. The applicant has a good academic background and research experience for the project. The publications and presentations testify to the applicant's ability and preparedness for the proposed project. The potential outcome of the project could be significant.

### Broader Impacts Criterion

#### Overall Assessment of Broader Impacts

Very Good

#### Explanation to Applicant

The broader impact of the proposed research project is very well documented. The applicant has been involved in some broader impact activities such as teaching teaching assistant and Eagle Scout captaining. The potential broader impact outcome of the proposed research could be significant.