

# Project Milestone Expectations and Formatting

EECS 598-007: The Ecological Approach to Visual Perception  
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**Formatting:** Please write up everything in cvpr format so that all projects are consistent. There are templates for both L<sup>A</sup>T<sub>E</sub>X and word. If you would like to avoid setting up a L<sup>A</sup>T<sub>E</sub>X environment on your computer, try using overleaf.com. Ideally the documents build on each other.

**Goals and Expectations:** You will complete a project over the course of the semester in groups of 2-5. An ideal project is equivalent to work publishable in a venue like CVPR or RSS. While getting a paper accepted here is not the point (nor the expectation), this gives an idea of the level of ambition, thoughtfulness, and general excellence in execution that is expected.

## 1. Project Proposal

Please write up a short document pitching the idea. You should have about one page of text, plus any figures you want to add.

In addition to enumerating the members of the team, the document should address the following questions (a subset of DARPA's Heilmeier Catechism):

- What are you trying to do? Articulate your objectives using absolutely no jargon. (*What are you really trying to do? Tell me a story!*)
- How is it done today, and what are the limits of current practice? (*Why is this an open issue?*)
- What is new in your approach and why do you think it will be successful? (*What is the specific novelty that you think you'll address and what's the insight you want to explore. Why do you have a hope of succeeding?*)
- How long will it take? (*Is this feasible?*)
- What are the mid-term and final "exams" to check for success? (*How will you know/quantify if you have succeeded? Will you get advanced warning?*)

Your proposal should not address these questions one by one but instead tell a narrative.

## 2. Project Midterm Report

Please write up an at least 3 page (but fewer than 5 page) short paper describing: the converged project; what concrete progress has been made; and what is left. Your goal is to convince the reader that you have made progress and you have a sense of how to complete the project.

The precise formatting is up to you, but you should think of this as a short version of the long paper. Thus, it would make sense to have an introduction, related work section, method section, and experiments. Experiments may be incomplete, but need to have clear to-dos, planned experiments and explanations for why these test the right things rather than generic "test if it works" goals.

## 3. Project Final Report

Please write up a 6-8 page paper consisting of usual sections of a CVPR or RSS paper. This should be written well and have good figures.

## 4. Project Final Presentation

Details TBD depending on number of projects, but this will be a short presentation on the paper. This should follow standard seminar formats. This can be divided up between people or done by one person.

### Grades:

Your grade will be decided in five equal parts:

- Midterm report (peers, David): is this done well and are you making progress towards a good project
- Project (David): is your project thoughtful, a substantial amount of work, and ambitious?
- Final report (David): was it done well?
- Final presentation (David): was it done well?
- Holistic project evaluation (peers): in the end, we have the project, paper and presentation, is this a good project?