**Student Appraisal by Advisor:** Please rate the student’s current ability, relative to the expectations for a graduate from the program, for each of the Program Learning Outcomes:

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| **PLO** | **Rating** | **Particular Strengths, Particular Areas for Further Development** |
| 1. Inquiry. Ability to identify novel and significant open research questions in the field, and to ask such questions in the context of current research literature. | Introductory □  Intermediate □  Advanced □  Expert □ | Strengths:  Further Development: |
| 1. Problem Solving. Ability to apply your knowledge to the analysis of technological problems, as well as to the design and implementation of viable solutions to those problems. | Introductory □  Intermediate □  Advanced □  Expert □ | Strengths:  Further Development: |
| 1. Experimental Design. Ability to design and conduct experiments for the purpose of evaluating and comparing proposed solutions on the basis of empirical evidence. | Introductory □  Intermediate □  Advanced □  Expert □ | Strengths:  Further Development: |
| 4) Self-directed. Possession of the characteristics of lifelong learners; including the ability to acquire and use new techniques, skills, and engineering and scientific tools for research and development, as well as, to develop new methods and make new discoveries. | Introductory □  Intermediate □  Advanced □  Expert □ | Strengths:  Further Development: |
| 1. Ethics. Practice a high standard of professional ethics, including integrity in the conducting (data planning, collection, and analysis) and writing of research. | Introductory □  Intermediate □  Advanced □  Expert □ | Strengths:  Further Development: |
| 1. Communicate effectively through oral, visual, and written means, effectively addressing a broad range of technical audiences. | Introductory □  Intermediate □  Advanced □  Expert □ | Strengths:  Further Development: |