

EECS4313 week 2

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Lecture 1

Reporting and analyzing bugs

Bug reporting

Writing an effective bug report

- Explain the problem and how to reproduce the problem
- Analyze the problem so that it can be described with a **minimum** number of steps
- Write a report that is complete, easy to understand, and non-antagonistic

"Be nice" - H.V. Pham 2024

What kind of errors to report?

- **Coding error** - The program does not do what the programmer would expect it to do; general bugs (pull request)
- **Design issue** - The program does what the programmer intended, but a reasonable customer would be confused or unhappy with it
- **Requirements issue** - The program is well designed and well implemented, but it won't meet one of the customer's requirements
- **Documentation/code mismatch** - Report this to the programmer (via bug report/github issues) and to the writer (via memo or a comment on the manuscript)
- **Specification/code mismatch** - Sometimes, the specs are right, sometimes the code is right and the specs should be changed