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## Online Subscriptions:

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### Disclaimer:

*This pathfinder contains suggested materials on Software Engineering that are available at the College of Engineering Library II. However, some references were not included.*

*We welcome suggestions for new pathfinder topics.*

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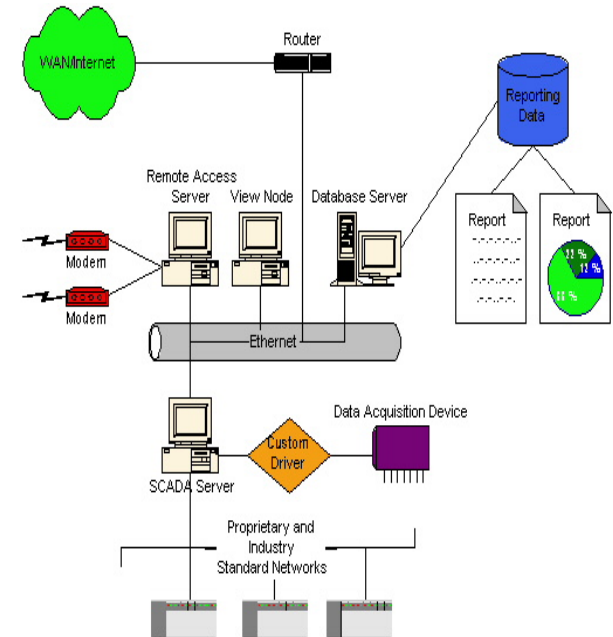


Image URL: [http://www.icscontrols.com/images/Software\\_Engineering.jpg](http://www.icscontrols.com/images/Software_Engineering.jpg)

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# SOFTWARE ENGINEERING

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## PATHFINDER



## SOFTWARE ENGINEERING

- A discipline that concerns in developing large applications. Software engineering covers not only the technical aspects of building software systems, but also management issues, such as directing programming teams, scheduling, and budgeting.

Source: [http://www.webopedia.com/TERM/S/software\\_engineering.html](http://www.webopedia.com/TERM/S/software_engineering.html)

## SOFTWARE DEVELOPMENT PROCESS

- A set of activities whose goal is the development or evolution of software.
- Generic activities in all software activities are:
  1. Analysis - investigates user requirements
  2. Specification - clearly set out necessary features of system.
  3. Implementation - Developing the proposed solution.
  4. Testing - Ensures that the solution solves the original problem
  5. Integration - Ensures that the solution works in context
  6. Maintenance - Modify the working solution as new requirements are identified.

Source: Sommerville, Ian. Software Engineering, 7th ed. 2004. (<http://www.cs.st-andrews.ac.uk/~ifs/Books/SE7/Presentations/PDF/ch1.pdf>)

[http://www.case.monash.edu.au/Topics/07.13.SWEng1/html/text.html#what\\_is\\_software\\_engineering](http://www.case.monash.edu.au/Topics/07.13.SWEng1/html/text.html#what_is_software_engineering)

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Software Development Life Cycle

Source: [http://www.scnsoft.com/images/content/development\\_process\\_2.gif](http://www.scnsoft.com/images/content/development_process_2.gif)

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