

## **Chapter 2: Licensing of Software Engineers and Safety Critical Systems**

### *Overview*

- This chapter delivers a comprehensive presentation on the subject of licensing of software engineers.
- The question of whether software engineering is a specific discipline is broached.
- Relevant vocabulary is defined and used.
- The pros and cons of the licensure of software engineers are presented.
- The opinions of prominent, relevant, professional organizations are presented.
- The professional engineering exams that presently exist for licensing are examined.
- Safety critical systems are introduced to emphasize the possible repercussions of insufficient accountability in system development.
- Case studies are presented to impact the need for caution when developing safety critical systems.
- These case studies are presented for discussion and to facilitate and enhance the learning process.
- Problems and questions are posed to reinforce the understanding of the concepts.
- URLs are provided for relevant websites for further research.