



## Professional Practice in Engineering and Computing

This book has been developed with an intellectual framework to focus on the challenges and specific qualities applicable to graduates on the threshold of their careers. Young professionals have to establish their competence in complying with multifaceted sets of ethical, environmental, social, and technological parameters. This competence has a vital impact on the curricula of higher education programs, because professional bodies today rely on accredited degrees as the main route for membership.

Consequently, this four-part book makes a suitable resource for a two-semester undergraduate course in professional practice and career development in universities and colleges. With its comprehensive coverage of a large variety of topics, each part of the book can be used as a reference for other related courses where sustainability, systems thinking, professional practice and career development are evident and increasingly visible.

### FEATURES

- Identifies the values that are unique to the engineering and computing professions, and promotes a general understanding of what it means to be a member of the profession
- Explains how professionalism, ethics, and law play a role in engineering and computing practice
- Discusses the importance of professional communication and reflection practice to a range of audiences
- Analyzes trends in leadership, entrepreneurship, design, and project management practices that are critical to engineers and computing professionals
- Describes future work that is influenced by digital transformation and how new graduates develop a career plan for the age of automation and AI

ENGINEERING



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## Preparing for Future Careers

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