

WHAT EVERY ENGINEER SHOULD KNOW



SECOND EDITION

# **What Every Engineer Should Know about Software Engineering**

**Phillip A. Laplante  
Mohamad Kassab**



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Taylor & Francis Group

# What Every Engineer Should Know About Software Engineering

**Phillip A. Laplante, Mohamad Kassab**

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Rapid Change 3 Enhancing Software Design with AI Integrating AI into Development Processes The Impact of AI on Creativity Optimizing Performance with AI Tools 4 The Evolving Role of Software Engineers From Coding to Complex Problem Solving Augmenting Skills with AI The Future of Engineering Work 5 Practical Strategies for Leveraging AI AI Tools Every Engineer Should Know Implementing AI in Your Projects Case Studies and Success Stories 6 Understanding AI s Impact on Code Quality Comparative Analysis of Human vs AI Code Improving Code Efficiency with AI Future Trends in Code Generation 7 Ethical Considerations in AI Development Evaluating Bias in AI Generated Code Privacy and Security Challenges Responsibility and Accountability of Engineers 8 Collaboration and Innovation with AI Building AI Enhanced Software Teams Interdisciplinary Approaches to Development Fostering a Culture of Continuous Learning 9 The Global Landscape of AI and Software Engineering International Trends in AI Adoption Cultural Influences on AI Development Global Opportunities for Engineers 10 Navigating Career Pathways in AI Era Engineering Skills for the Future Building a Portfolio of AI Enhanced Projects Networking and Community Engagement 11 AI and the Future of Software Design Evolution of Design Paradigms AI as a Design Partner Redefining Creativity in Engineering 12 Conclusion Embracing the Shift

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