System Architecture: Strategy and Product Development for Complex Systems

By Edward Crawley, Bruce Cameron, Daniel Selva

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Architecture and Function of Complex Systems

System architecture is the study of early decision making in complex systems. This text teaches how to capture experience and analysis about early system decisions, and how to choose architectures that meet stakeholder needs, integrate easily, and evolve flexibly. With case studies written by leading practitioners, from hybrid cars to communications networks to aircraft, this text showcases the science and art of system architecture.

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Editorial Review

About the Author

Edward F. Crawley is the President of the Skolkovo Institute of Science and Technology (Skoltech) in Moscow, Russia, and a Professor of Aeronautics and Astronautics and Engineering Systems at MIT. He is the founder of ACX, BioScale, DataXu, and Ekotrope, and a member four national academies of engineering.

Bruce G. Cameron is the founder of Technology Strategy Partners (TSP), a consulting firm, and the Director of the System Architecture Lab at MIT. He has worked with 60 Fortune 500 firms across aerospace, high tech, and consumer goods, and has built hardware currently on orbit.

Daniel Selva is a Professor of Mechanical and Aerospace Engineering at Cornell. He has pioneered the use of machine learning tools in system architecture analysis, and is the recipient of Best Paper and Hottest Article awards for his work with NASA.

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