

1. Record Nr.	UNINA9911009201603321
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Titolo	Mastering IoT for Industrial Environments : Unlock the IoT Landscape for Industrial Environments with Industry 4. 0, Covering Architecture, Protocols Like MQTT, and Advancements with ESP-IDF (English Edition)
Pubbl/distr/stampa	Delhi : , : Orange Education PVT Ltd, , 2024 ©2024
ISBN	9788197081972 8197081972
Edizione	[1st ed.]
Descrizione fisica	1 online resource (181 pages)
Soggetti	Internet of things Industry 4.0
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover Page -- Title Page -- Copyright Page -- Dedication Page -- About the Author -- About the Technical Reviewer -- Acknowledgements -- Preface -- Errata -- Table of Contents -- 1. Industrial Revolution with IoT -- Introduction -- Structure -- Brief History of the Industrial Revolution -- The First Industrial Revolution -- The Second Industrial Revolution -- The Third Industrial Revolution -- The Industry 4.0 -- Recognizing Industry 4.0 -- The Internet of Things -- A Brief History of IoT -- Pillars of IoT -- Growth of IoT -- Applications of IoT -- Future Trends in IoT -- Security Concerns in IoT -- Conclusion -- References -- 2. The Architecture of IoT -- Introduction
Sommario/riassunto	Embark on a journey through the transformative landscape of IoT with this comprehensive guide, "Mastering IoT For Industrial Environments". From its inception in the Industrial Revolution to its pivotal role in Industry 4.0, each chapter provides a deep dive into essential concepts. It will explore IoT architecture, microcontrollers, communication protocols, and interfacing protocols. Delve into MQTT, the protocol for IoT, and machine-to-machine communication. Discover the transition to ESP-IDF and the future of IoT in Industry 4.0. This book provides

readers with practical insights into implementing IoT solutions within industrial contexts. Through a meticulously curated array of case studies and real-world applications, readers gain invaluable perspectives on the prevailing IoT trends shaping industrial landscapes. Spanning from intelligent factories and predictive maintenance to supply chain optimization and energy management, the book addresses a spectrum of topics reflective of contemporary industrial challenges and opportunities.
