

ROBOTICS 2035



ARSHAD HISHAM

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Dedication

To the epic tales and boundless universes that ignited my imagination, this series is dedicated to the visionary worlds of Battlestar Galactica, Isaac Asimov's Foundation series, and Star Trek.

Your narratives have not only entertained but have also inspired countless hours of daydreaming and late-night musings about AI, space exploration, and the future of humanity.

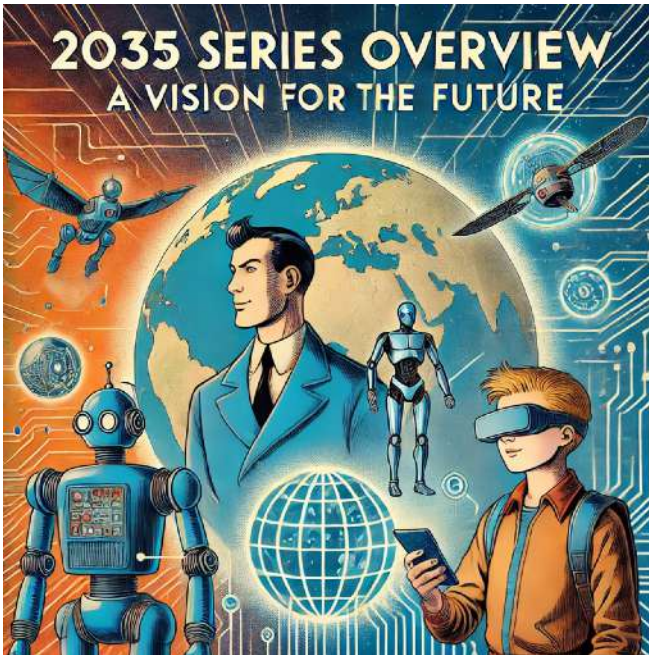
Your intricate world-building has taught me that no detail is too small, no plot twist too grand. May this series honor your legacy and spark the same curiosity and wonder in others that you have kindled in me.

To my incredible family—my wife, whose patience and support know no bounds, even when I rambled about Cylons and warp drives; my children, whose questions about robots and space made bedtime stories an adventure of their own and sometimes more complicated than a quantum physics lecture; my parents, for encouraging my love of science fiction from a young age and not minding when I turned the living room into a command center; and my in-laws, for always cheering me on, even when I explained the plot of my latest book at family dinners. A special shout-out to my friends and the brilliant minds at InGen Dynamics—thank you for tolerating my endless geeky references, my tendency to speak Klingon during meetings, and for being my partners in turning sci-fi dreams into reality.

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THE 2035 SERIES: A VISION FOR THE FUTURE

Introduction: Envisioning 2035



By 2035, the fabric of daily life was unrecognizable to anyone who had lived through the early years of the 21st century. The convergence of artificial intelligence, robotics,

automation, and reimagined education systems had turned the ordinary into the extraordinary. Yet, this future was not born from the seamless implementation of technology alone. It had emerged from years of debate, trial, and error—a battle between innovation and the preservation of humanity's most vital qualities.

Picture this: in a remote Kenyan village, Amina places a lightweight augmented reality headset on her daughter, who is eager to begin her virtual lesson on the ancient civilizations of Mesopotamia. Thousands of miles away in Silicon Valley, a robotics engineer named Aaron remotely supervises an AI-driven manufacturing plant in Kuala Lumpur, watching in real-time as robotic arms assemble intricate components faster and more precisely than any human team ever could. Meanwhile, deep in Antarctica, a fleet of autonomous drones collects climate data, predicting patterns that could mitigate the devastating effects of global warming.

In many ways, the story of 2035 is one of connection—between humans, between nations, and between humanity and the intelligent systems we've built to assist us. But that connection wasn't always smooth. To appreciate the world of 2035, one must first rewind to the inflection points that defined its trajectory. These moments were marked not by technological marvels alone, but by the choices humanity made in response to them.

Historical Turning Points: The Road to 2035

The seeds of this new world were planted in the 20th century. In 1961, General Motors introduced Unimate, the first industrial robot, into its assembly line. It was an unwieldy, clunky machine by modern standards, yet it symbolized a fundamental shift: machines that didn't just assist humans but began to replace them in repetitive, hazardous tasks.

By 2011, IBM's Watson made headlines for defeating two human champions on the quiz show Jeopardy! This wasn't merely an entertainment spectacle. It was a moment when artificial intelligence demonstrated its ability to process and understand vast amounts of unstructured information, laying the groundwork for the AI revolution of the following decades.

Then came 2023, a year that historians would later call the "Generative Leap." OpenAI's language models, Google's DeepMind advancements, and breakthroughs in generative design allowed machines to create in ways previously thought to be uniquely human. These developments didn't just enhance industries; they redefined what machines—and by extension, humans—were capable of.

But for all the promise these innovations brought, they also highlighted the tensions inherent in rapid technological change. By 2025, debates about AI governance, the role of automation in job displacement, and the ethical dilemmas surrounding autonomous systems had reached a fever pitch.

In the United States, for example, the introduction of self-driving freight vehicles sparked protests across the trucking industry, displacing hundreds of thousands of drivers. In India, an experimental AI-led irrigation system saved millions of gallons of water during one of the country's worst droughts, proving how automation could solve global challenges.

And in Japan, where an aging population strained social systems, humanoid robots filled roles as caregivers, offering companionship and support to the elderly. These events were not isolated—they were snapshots of a world adapting to forces that simultaneously empowered and challenged it.

The Four Pillars of the 2035 Series

This book series delves into four interlocking areas where the most profound transformations unfolded: artificial intelligence, automation, robotics, and education. Each area brought unique challenges, yet their integration defined the story of humanity's future.

Artificial Intelligence: The Brain of the Future

AI became the brain powering industries, homes, and even individual lives. It analyzed patterns in everything from healthcare to climate change, offering solutions that were as precise as they were scalable.

Automation: Efficiency Redefined

Automation eliminated drudgery but also transformed the very concept of work. By 2030, over 50% of the world's agricultural output was managed by AI-driven systems. Yet, this efficiency came with trade-offs. In rural Kansas, farmers who once toiled in fields now monitored drone fleets from control hubs. Their pride in production was tempered by a longing for the tactile connection they once had with their land.

Robotics: Partners and Pioneers

Robots didn't just fill gaps in labor; they explored frontiers humans couldn't. From the deep seas to the surface of Mars, robots acted as our hands and eyes in places we could not go. Yet, their presence also raised questions. When an autonomous rover made a critical error during a Europa mission in 2029, it sparked a global debate about accountability in robotic decision-making.

Education: Learning Reimagined

Education became the linchpin of adaptation. By 2035, immersive AR and VR classrooms brought the world's knowledge to every corner of the globe. A child in Guatemala could explore the Pyramids of Giza alongside a classmate in Singapore, yet disparities remained. The digital divide persisted, and debates over data privacy in AI-driven education systems underscored the need for vigilance.

The Human Element: Why This Series Matters

While these advancements may sound like the triumph of machines, they are, at their core, a testament to humanity's resilience and adaptability. This series isn't just about technology; it's about the people who shape and are shaped by it. It's about Priya, an AI ethicist in Mumbai, who fights to ensure that algorithms reflect diverse perspectives. It's about Miguel, a mechanic in Mexico City, who reinvents himself as a renewable energy technician at 52. And it's about Aisha, a teenager in Nairobi, who learns to navigate a globalized world through the lens of a virtual reality headset.

At its heart, the 2035 Series is a story of choice. As machines become more intelligent, humans must decide how to wield this power responsibly. Will we use AI to heal divisions or deepen them? Will robots amplify human creativity or replace it? And will automation free us from toil or alienate us from purpose?

By exploring these questions through narrative and analysis, the 2035 Series invites readers to imagine a future that is not preordained but shaped by the decisions we make today. It is a journey into the possibilities of tomorrow, grounded in the realities of our shared humanity.

WHY THE AUTHOR HAS COME UP WITH THIS BOOK

Why This Book, Why Now

In 2035, the world stands at the crossroads of extraordinary technological evolution and the enduring need for human-centered progress. Arshad Hisham, an innovator, entrepreneur, and thought leader, has spent decades navigating these crossroads, shaping a future where artificial intelligence, automation, robotics, and education converge.

The ideas in this book are not simply projections of what could be; they are the result of hard-earned experience, ethical reflection, and an unyielding drive to align innovation with humanity's greatest challenges.

Arshad's story begins not in the gleaming tech campuses of Silicon Valley but in the vibrant yet complex landscapes of the Middle East and India. Growing up in environments that straddled traditional cultures and emerging modernity, he understood early on how technology could be both a bridge and a barrier. This duality has driven his career: from the assembly lines of Toyota to the research labs of IBM, from government initiatives in Australia to founding InGen Dynamics, a company at the forefront of AI and robotics.

This book is an invitation to explore the transformative power of these technologies while grappling with their societal implications. Drawing inspiration from milestones like the launch of the Unimate robot in 1961, which heralded the

automation of industry, and IBM Watson's victory on Jeopardy! in 2011, which showcased the potential of machine intelligence, Arshad dives deep into the breakthroughs, setbacks, and ethical dilemmas that have defined this century of innovation.

But this is more than a retrospective. It's a roadmap for navigating the world ahead. As someone who has negotiated multi-million-dollar exits, built startups from scratch, and advised some of the most forward-thinking organizations globally, Arshad writes not as a theorist but as a practitioner. His unique lens blends visionary foresight with a deep understanding of the ground realities faced by educators, policymakers, business leaders, and everyday citizens.

Arshad believes that artificial intelligence is more than a tool; it is a mirror reflecting humanity's values, biases, and aspirations. This belief underpins the ethos of the book: technology must not only advance; it must advance responsibly. Through narratives of breakthroughs—such as the 2024 debut of Tabletop Aido, a robot designed to address labor shortages—and anecdotes of collaboration, such as his work with underserved communities to democratize technology, Arshad paints a future that is both inspiring and cautionary.

A Vision Rooted in Humanity

Arshad's work reflects an unwavering commitment to the idea that technology should empower, not alienate. This principle extends to his work in education. When the pandemic of the early 2020s forced a rapid shift to online learning, Arshad saw both the potential and the pitfalls of virtual education. He developed Futureonauts, a curriculum that reimagines how engineering students learn AI and robotics. Taught at top universities worldwide, the program emphasizes not just technical skills but the ethical considerations necessary for responsible innovation.

What drives Arshad's vision is a simple but profound belief: that technology should serve the many, not the few.

This philosophy has informed his work with communities in rural India, where he championed projects to bring affordable automation to small-scale farmers. By integrating AI with traditional farming practices, these projects didn't just boost yields—they preserved livelihoods and cultural heritage.

Bridging the Gap Between Vision and Action

For all the optimism in this series, it is not blind to the challenges. The rise of AI and automation has been accompanied by significant disruptions.

One of the book's central themes is accessibility. Arshad critiques the stark inequalities in technological access, which became glaringly evident during the pandemic. While children in affluent cities learned through AR and VR classrooms, students in underserved regions struggled with basic internet connectivity. His advocacy for equitable education isn't theoretical—it's grounded in his projects to deploy learning hubs in parts of Sub-Saharan Africa and South Asia.

PROLOGUE: THE RISE OF ROBOTICS BY 2035

The hum of robotic arms echoed softly through the cavernous factory in Shenzhen. Each movement was precise, deliberate, and almost imperceptibly fast. The machines worked in unison, assembling electric vehicles that would soon navigate city streets on their own. On a nearby screen, an algorithm displayed real-time metrics—output efficiency, maintenance predictions, and even environmental impact—data that a team of engineers once pored over for days.

The world in 2035 was both familiar and alien. People still commuted to work, but many sat alongside humanoid robotic colleagues. Children still played in parks, but robotic nannies kept a watchful, tireless eye. Farms continued to grow food, though fields were now managed by drones that knew every contour of the land better than any farmer ever could. The quiet, efficient presence of machines had become so woven into daily life that many no longer noticed their impact—until something went wrong.

On one end of the spectrum were stories of triumph. In Tokyo, robotic caregivers assisted an aging population, lifting patients with gentleness that belied their mechanical frames. In Nairobi, drones delivered medical supplies to remote villages, bypassing impassable roads and cutting delivery times from days to hours. And on the Martian surface, rovers explored uncharted terrains, their sensors seeking traces of water, laying the groundwork for humanity's interplanetary ambitions.

But there were also stories that provoked discomfort and debate. In 2029, an autonomous delivery truck malfunctioned on a busy highway in Los Angeles, sparking a chain-reaction crash. Investigators traced the error to a rare software bug, but the incident raised a thorny question: who was responsible when machines failed? In 2023, a manufacturing robot in Bangladesh had its code corrupted by a cyberattack, bringing the factory to a standstill. And in 2032, activists in Berlin protested against humanoid companions, arguing that the emotional bonds some humans formed with robots blurred the line between relationships and simulations.

The story of robotics is not a new one. Its roots trace back to the automata of ancient Greece and China, mechanical marvels that delighted rulers with their lifelike movements. Fast-forward to 1961, and General Motors introduced the first industrial robot, Unimate, into its assembly lines, heralding the dawn of automated production. By the early 21st century, robotics had evolved into an interdisciplinary juggernaut, combining AI, machine learning, and advanced materials to create machines capable of tasks that once belonged exclusively to humans.

Yet, the 2020s marked an inflection point. Three key events catapulted robotics from niche applications to a societal force. In 2016, AlphaGo's historic defeat of world champion Lee Sedol signaled that AI could master not only rote tasks but also strategic and creative endeavors. In 2020, the COVID-19 pandemic accelerated the adoption of robots in healthcare and logistics, as humans turned to machines for safety and efficiency. And by 2025, breakthroughs in neural networks and edge computing enabled robots to process information locally and in real-time, making them faster, more adaptive, and increasingly autonomous.

By 2035, robots were everywhere. They were not just tools but collaborators—partners in innovation, caretakers for the vulnerable, and adventurers in uncharted domains. Yet, for all their promise, they also posed profound questions. How should we assign blame when machines make mistakes? What values should guide their design and deployment? And perhaps most importantly, how do we preserve humanity's unique essence in a world shared with creations that can think, adapt, and learn?

This book is an exploration of that shared future. Through the stories of individuals, industries, and societies navigating the age of robotics, it seeks to illuminate the promises and perils of this profound transformation. From the rise of humanoid caregivers to the ethical dilemmas of autonomous decision-making, from robots exploring the depths of the ocean to those enabling sustainability on Earth, each chapter unpacks the complexities of a world where humans and machines coexist.

The rise of robotics is not just a technological shift; it is a societal one. It challenges us to rethink not only how we work and live but also what it means to be human. The decisions we make today will define the relationship between humans and robots for generations to come. And in those decisions lie both the peril and the potential of this extraordinary era.

FOREWORD: WHY THIS BOOK, WHY NOW

By 2035, robots had become so integral to daily life that many people barely noticed them anymore. They cleaned streets, served meals, and even offered companionship. Yet beneath this seamless integration lay a web of challenges that could no longer be ignored. How should societies regulate machines that could outthink their creators? What did it mean for labor markets when robots replaced not only factory workers but also white-collar professionals? And how could humanity ensure that these powerful creations served the many, not just the few?

This book was born from the urgency of these questions. It is not a technical manual or a speculative vision of the distant future. Instead, it is a snapshot of a world in transition, a moment when humanity stands at the crossroads of possibility and peril. Robotics has given us tools of astonishing power, but it has also exposed vulnerabilities—economic, ethical, and existential—that demand our attention.

The structure of this book reflects its dual purpose: to inform and to provoke. Each chapter begins with a story, grounding the technology in the lives of the people it affects. These narratives are followed by in-depth analysis, exploring the broader implications of robotics for industries, communities, and humanity as a whole. The combination of storytelling and analysis aims to engage both the heart and the mind, offering a holistic perspective on this complex subject.

Why now? Because the pace of change is accelerating. In the 2020s, robotics moved from industrial applications to homes, hospitals, and schools. By the early 2030s, they were shaping policy debates, redefining human relationships, and challenging deeply held assumptions about autonomy, ethics, and purpose. The choices we make today will determine whether robots become tools of empowerment or engines of inequality, whether they amplify our best qualities or magnify our flaws.

This book is an invitation to engage with these questions. It is a call for thoughtful leadership, interdisciplinary collaboration, and a commitment to ensuring that the rise of robotics benefits all of humanity. Most importantly, it is a reminder that the story of robots is, at its heart, a story about us. It is about our capacity to adapt, to innovate, and to chart a future that balances progress with purpose.

The time to grapple with these questions is now. The rise of robotics is not a distant horizon—it is our present. And its story is ours to shape.

CHAPTER 1: LIVING AMONG MACHINES

Maya's World: A Day in the Life of Robotics

Maya's mornings began with a quiet efficiency that felt almost magical. Her alarm clock didn't just wake her up—it synced with Eos, her personal robotic assistant, to ensure the day unfolded seamlessly. By the time she shuffled into the kitchen, coffee was already brewing, thanks to Eos' precise coordination of her smart appliances. A holographic projection hovered over the counter, displaying her calendar.

"You have a client meeting at 9:30 a.m.," Eos said in its measured yet warm tone. "Would you like me to confirm your grocery delivery for 4 p.m. and reschedule your yoga session to accommodate dinner with Emma tomorrow evening?"

Maya sipped her coffee, nodding absently. Eos didn't just manage her tasks; it anticipated her needs in a way that felt both comforting and disconcerting. It was like living with a digital shadow, always a step ahead.

But outside her smart apartment, the world painted a more complex picture. During her walk to work, Maya passed an elderly man sitting on a park bench, struggling to adjust the settings on his prosthetic hand. The contrast between her sleek robotic assistant and his visibly outdated technology was stark. Access to cutting-edge robotics wasn't universal, and the divide between the tech-enabled and those left behind was becoming harder to ignore.

At work, the integration of robots was even more pronounced. Autonomous drones buzzed through the office, delivering documents and supplies. Cobots—collaborative robots—worked alongside Maya and her colleagues in the design lab, handling heavy machinery and performing repetitive calculations. The cobots' efficiency was unmatched, but their silent precision sometimes made the room feel devoid of the messy, creative energy Maya associated with collaboration.

Later that evening, Maya returned home to find dinner prepared, the table set by Eos with a precision that bordered on artistry. As soft music filled the room and the lights dimmed to a soothing glow, Maya couldn't help but feel a pang of unease. Robots like Eos were woven into the fabric of her life, enabling convenience and productivity that felt indispensable. Yet, she often wondered: where was the line between collaboration and dependence?

As she lay in bed, her thoughts lingered on the growing presence of machines in her world. What did it mean to live among robots? And how far could society integrate these machines without losing touch with its humanity?



The Integration of Robotics: A Revolution in Daily Life

By 2035, robotics had transformed from a niche innovation into a ubiquitous presence, shaping how people lived, worked, and interacted. What once seemed like the realm of science fiction—machines that could think, adapt, and assist—was now the new normal. Homes, workplaces, and cities pulsed with the quiet hum of automated systems, each one working to make life smoother, faster, and more efficient. Yet, this revolution was not without its complexities, as society grappled with questions of privacy, ethics, and dependency.

Homes: Where Robots Became Part of the Family

The 2020s had seen the rise of domestic robots, but by 2035, these machines had evolved into indispensable household companions. Robots like Eos were more than tools—they were partners in managing everyday life. They cooked meals, optimized energy use, and even provided emotional support through advanced emotional recognition algorithms.

Yet, this intimacy with technology raised questions. Was it possible to form genuine connections with machines? Could robots replace human companionship in meaningful ways? Historical parallels, like the early 20th-century rise of household appliances, offered some clues. Washing machines and refrigerators had revolutionized domestic life but had also shifted societal expectations around labor and leisure. Robots were now doing the same, but on a much larger scale.

Workplaces: The Human-Robot Collaboration

The workplace of 2035 was a hybrid environment where humans and robots worked side by side. In sectors ranging from healthcare to construction, cobots played a pivotal role. Unlike traditional industrial robots, cobots were designed to collaborate with human workers, augmenting their abilities rather than replacing them.

Consider the healthcare industry. Robotic assistants could perform tasks like drawing blood or preparing surgical tools with precision, while human doctors focused on diagnosis and patient care. Similarly, in creative industries, AI-powered robots assisted architects and designers by generating models or simulating complex structures, leaving humans to make the final aesthetic and functional decisions.

But this integration wasn't seamless. The introduction of robots often led to friction, as workers adjusted to new

dynamics and wrestled with concerns about job security. A 2021 study by the World Economic Forum had predicted that automation would displace 85 million jobs by 2025, while simultaneously creating 97 million new roles. The challenge lay in bridging the gap between these two figures—a task that required reskilling programs and a reimagining of education.

Cities: Where Machines Met Society

The cities of 2035 were living ecosystems of robotics and AI, designed for efficiency and accessibility. Autonomous vehicles dominated the streets, reducing traffic congestion and emissions. Public spaces were maintained by robotic systems that monitored air quality, repaired infrastructure, and even managed green spaces.

One striking example was Singapore's deployment of patrol robots in 2021. These machines monitored public areas for safety violations, like improper social distancing during the pandemic. While the initiative sparked debates about privacy, it also demonstrated how robots could enhance public safety. By 2035, such systems had become commonplace, with cities leveraging robotics to address challenges ranging from pollution to resource management.

However, the integration of robots into public life also came with trade-offs. The more data these systems collected, the more questions arose about surveillance and privacy. Who owned this data? How was it used? These concerns echoed the early days of the internet, when society grappled with the implications of a connected world.

The Complexities of Living Among Machines

Maya's story highlights both the promise and the perils of living in a world dominated by robotics. On one hand,

machines like Eos enhanced productivity, convenience, and quality of life. On the other, they raised profound questions about dependency, equity, and the nature of human interaction.

One of the most pressing concerns was the growing divide between those who had access to advanced robotics and those who didn't. This disparity mirrored earlier technological revolutions, such as the spread of electricity in the 20th century. While urban centers quickly adopted the new technology, rural areas lagged behind, exacerbating economic and social inequalities.

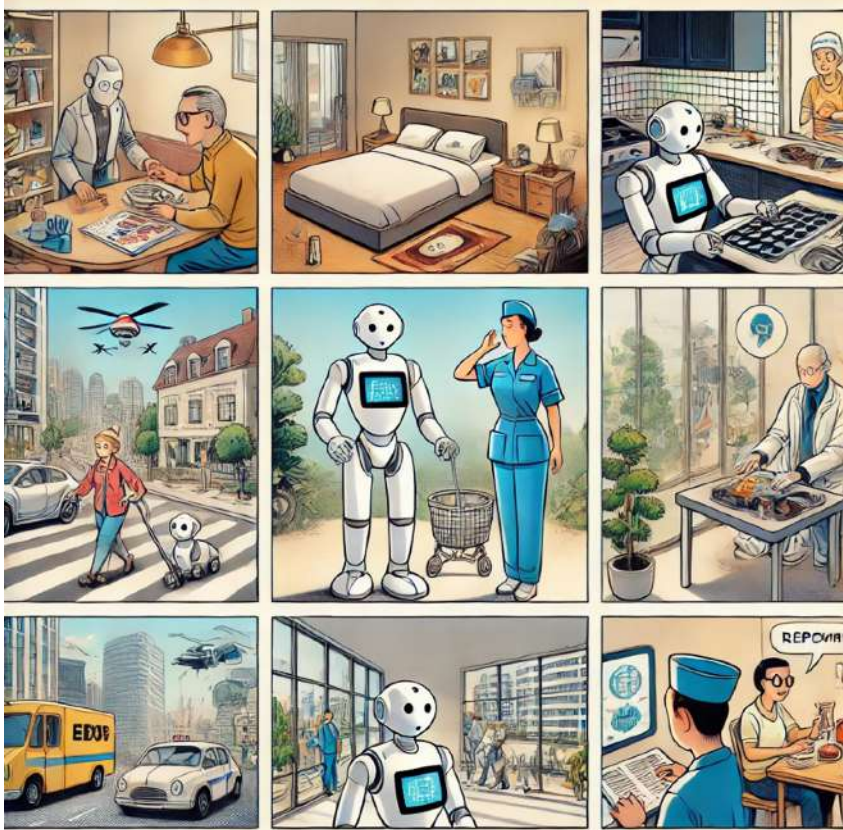
Similarly, the ethical implications of robotics became a focal point of debate. Could machines make moral decisions? If a self-driving car faced a situation where it had to choose between two lives, how would it decide? These questions weren't just theoretical—they were happening in real-time, forcing society to confront the limits of machine intelligence.

The Road Ahead

By 2035, humanity had entered a new chapter in its relationship with machines. Robotics had become deeply integrated into daily life, reshaping how people worked, lived, and interacted. Yet, this integration was far from complete. As society moved forward, it faced a critical question: could it strike a balance between leveraging the power of robotics and preserving the essence of what it meant to be human?

For Maya, and countless others like her, the answer lay not in the machines themselves, but in the choices humanity made about how to use them. The story of robotics wasn't just about technology—it was about people, values, and the ever-evolving dance between progress and purpose. The next chapter will explore the state of robotics in 2025,

examining the technological breakthroughs and societal shifts that set the stage for this transformative era.



CHAPTER 2: THE ROBOTICS LANDSCAPE IN 2025

CHAPTER 3: HUMANOIDS AND COMPANIONS

CHAPTER 4: AUTONOMY AND ETHICS

CHAPTER 5: ROBOTICS IN HEALTHCARE

CHAPTER 6: ROBOTS AT WORK

CHAPTER 7: FRONTIERS OF EXPLORATION

CHAPTER 8: THE SOCIETAL IMPACT OF ROBOTICS

CHAPTER 9: SUSTAINABILITY THROUGH ROBOTICS

**CHAPTER 10: ROBOTICS AND HUMANITY—A SHARED
FUTURE**

EPILOGUE

DISCLAIMER

This book combines forward-looking projections and fictional narratives to explore the potential trajectory of technology and its impact on society. While the scenarios and technologies described are grounded in current research and trends, they are speculative and should not be interpreted as predictions or guarantees of future developments.

Readers should be mindful that the narratives, characters, and events in this book are fictional and intended to illustrate broader themes and concepts. Any resemblance to actual persons, living or dead, or real events is purely coincidental.

The ideas and opinions expressed herein are those of the author and do not necessarily represent the views of any organizations or entities referenced in this work. This book is intended for educational and entertainment purposes and should be approached as a starting point for thoughtful discussion rather than a definitive guide.

May this journey inspire curiosity, dialogue, and a commitment to shaping a future that reflects humanity's highest aspirations.



ABOUT ARSHAD HISHAM

Arshad Hisham is an Advisor, Educator, Managing Consultant, Investor, Engineer, and Inventor with degrees in Business, Engineering, and an MBA. He is a dynamic and driven innovator with a proven track record of exceptional achievements. Over the course of his career, Arshad has transformed simple ideas into multimillion-dollar enterprises, earned worldwide press coverage, and successfully negotiated complex exit sales to billion-dollar global conglomerates.

Arshad has served on advisory councils at leading institutions like Cal State East Bay and as a jury member for the prestigious Edison Awards in the United States. His groundbreaking work in AI, Automation, and Robotics has

been featured in major publications, including Fortune, Forbes, Discovery Channel, IEEE, and Popular Science. A sought-after speaker, Arshad has delivered keynote addresses at global events such as the IEEE Robotics Symposium at Columbia University, the Boston Consulting Group's AI Summit in Chicago, The Walt Disney Company, The City of Tomorrow Summit at 92Y in New York, and the Robo-Business Summit in San Jose.

As a top operations executive and digital transformation leader, Arshad has worked with Silicon Valley high-tech firms and Fortune 50 companies, driving growth and efficiency across industries such as healthcare, retail, hospitality, banking, and large consumer businesses. In addition to his corporate roles, Arshad is a dedicated board member, angel investor, and advisor to emerging technology companies in AI, Automation, Cybersecurity, Blockchain/FinTech, and Robotics. His global impact spans Silicon Valley, India, the UK, and the Middle East, where he has fostered innovation and empowered entrepreneurs.

Arshad's professional journey includes significant contributions during his tenure with IBM, the Government of Australia, and Toyota, where he played key roles in advancing automation and enterprise software development. Between 2008 and 2015, he founded four rapidly growing startups in Enterprise Software, Vehicle Automation, Point-of-Sale Systems, and Online Gaming. Since 2015, as the founder and CEO of InGen Dynamics, he has spearheaded groundbreaking advancements in AI, Education, Automation, and Robotics. The company's innovative products, including Aido, Sentinel, Kaiser.Haus, and Origami, address global challenges such as labor shortages and environmental sustainability. By 2025, the company achieved an \$80M revenue pipeline and successfully deployed Tabletop Aido robots across the United States, London, and the Asia Pacific, with over 750,000 hours of field operations.

Arshad's contributions extend into education, where he developed a comprehensive Engineering Degree curriculum in AI, Automation, and Robotics for the Futureonauts educational initiative, now taught in top engineering colleges worldwide. His innovations have been referenced by prestigious academic institutions, including MIT, the University of Pennsylvania, and IEEE, and featured in high school textbooks. His profile and company have been highlighted by the American Society of Mechanical Engineers (ASME) and exhibited at world-renowned science museums like the Sheikh Abdullah Al Salem Culture Centre in Kuwait City.

Arshad also serves as an Executive-in-Residence at Cranfield School of Management. A recipient of the Edison Award Silver Medal, he regularly shares his expertise on global podcasts and media outlets, discussing AI, IP, Education, Automation, and Robotics. Arshad Hisham's work reflects a deep commitment to democratizing technology, fostering equity, and designing systems that empower communities worldwide. His journey is not just a story of technological success but one of human ingenuity, ethical responsibility, and an unyielding passion for building a brighter future through innovation.