



Enrichment Lecture

Digital Transformation in Aerospace

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The world is changing faster than ever. While it is changing, new terms came into our life; cloud, big data, blockchain, virtual/augmented reality, Internet Of Things (IOT). Journey of digital transformation started with digitization. Gottfried Wilhelm Leibniz develops the modern binary number system which is digitization and, in 1703, publishes Explication de l'Arithmétique Binaire (Explanation of Binary Arithmetic). People started to digitize their works in 1990s and today it became a mandatory transformation for companies. The terms we mentioned above also drive companies to the next century. After 2010, people discovered magic of connectivity, devices and apps started to talk each other. A new term, IOT joined the digital transformation journey and this journey gain a high importance. We are now witnessing this journey where digital technologies impact human lives, businesses and enterprises around the world. Today, Digital Transformation is the integration of digital technology into all areas of a business. Organizational digital transformation is increasingly a necessity for survival in this hyper-competitive age. In the “Digital Transformation in Aerospace” talk we will discuss;

-What is Digital Transformation?

-Digital Transformation Framework

-Where Digital Transformation starts from?

-IT Department's role for Digital Transformation: Cloud, Hybrid Cloud; Big Data & Analytics; Simulation; AR & VR; Machine Learning and Artificial Intelligence, Deep Learning; IOT; API Programming; Digital Transformation in Aerospace; AI/ML applications in Aerospace; How IT department's approach changed in Aerospace

Biography :

Hakan Aydemir got BS and MS degree on Electronics Engineering and he has been working in various fields of aerospace industry projects for more than 13 years, he is managing integrated project teams and designing software architecture, and developing systems and tools. He is also consultant to “Digital Transformation” department in TAI. His expertise on topic is Amazon Web Services, On-Premise Cloud Solutions, Pivotal Cloud Foundry, IOT peer to peer architectures. He is one of the contributors of book “Advances in Aeronautical Informatics: Technologies Towards Flight 4.0”.

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