Somendra {Simon} Singh
Brief Curriculum Vitae
10/17/2024

Mr. Singh currently serves as a NASA Civil Servant at the Goddard Space Flight Center. He chairs the SOIS Applications Support Services Working Group and has been involved with CCSDS SOIS-App since 2022 and CCSDS SIS-DTN since 2019. He is a seasoned software systems engineer with over 20 years of experience in mission flight software. His career includes work with national agencies, such as NASA, NIST (National Institute of Standards and Technology), NRL (Naval Research Laboratory), and NAVSEA (Naval Sea Systems Command). He has also participated in standards organizations, like CCSDS, IETF, ISO, IEC, ANSI (American National Standards Institute), and IEEE, contributing to various standards. He was a member of the US delegation to many ISO, IEC, and CCSDS international meetings and has extensive experience in building consensus and developing standards in technical areas.

Mr. Singh has contributed to numerous NASA projects, including AIM, SORCE, TESS, and ISS Cargo Resupply. He has full lifecycle experience with more than 15 satellite missions, including launch, anomaly resolution, post-launch support, patching, and continuing customer support. He holds dual master's degrees in Computer Science from the Indian Institute of Technology and Industrial Engineering (with a concentration in Computer Integrated Manufacturing), as well as a bachelor's degree in Electrical Engineering. Recently, he has been a major contributor in developing key technologies, such as the CCSDS profile of DTN's Bundle Protocol, Custody Transfer, Network Management approach and Management Information Base (MIB)s, and FPGA-based hardware acceleration for DTN (Delay Tolerant Networking) nodes. Mr. Singh's leadership roles include Chief Flight Software Engineer and Senior Principal Flight Software Engineer on various satellite projects.

As the SOIS Area Director, Mr. Singh would be well positioned to leverage his extensive mission experience and to engage with missions to ensure that the standards developed are relevant to space mission needs and have a path to infusion across international space agencies and industry.