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### Abstract

Missions and operations in space sometimes require things to be built in space. This is largely due to launch restrictions such as fairing size or rocket payload capacity. Since the early days of the space race, humans have been devising ways to assemble, manufacture or otherwise construct things while in space. In this paper, and subsequent presentation, we will review the history of structures and objects made on orbit and beyond. In addition, we will take a journey across today’s emerging space construction industry. We will look at technologies, tools, and processes being forged today to build the future we want tomorrow. Finally, we will venture into the future of the industry and try to imagine what may be possible.

### A short bio

Kit is an energetic engineer/entrepreneur working in the space, aerospace, and automotive industries. He is the Founder of Carson & Associates LLC, an engineering company specializing in all-up product design serving customers all across the United States. In 2016 realizing that launch costs were about to start dropping and that orbital construction projects would soon become viable, he founded Ortum Stellar Eo (OSE). OSE is latin for ‘The Rise of Star Travel’, a company dedicated to building the tools and processes needed to make us a permanently space fairing civilization.