

MECHANICAL & AEROSPACE ENGINEERING

ASTELLAR



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ORION - ORBITAL RESTORATION THROUGH INNOVATIVE OPERATIONS NETWORK

The Orbital Restoration through Innovative Operations Network (ORION) mission enhances satellite sustainability by providing in-orbit servicing in GEO. ORION consists of a depot and several servicer satellites that perform repairs, refueling, and debris tracking, reducing replacement costs and mitigating space debris. This mission aims to demonstrate the feasibility of on-orbit servicing, supporting long-term space operations and sustainability. ASTELLAR, a joint AE/ME subteam part of ORION, will test robotic arm capabilities to repair solar panels through a prototype.

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