

## ► DIGITAL SYSTEMS

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### Rheinmetall's Autonomous Technology for Space Exploration: Rheinmetall Canada Contributes PATH System to Canadian Lunar Rover Project

Rheinmetall is making a significant contribution to the era of international lunar exploration. Provectus Robotics Solutions, a subsidiary of Rheinmetall Canada Inc., is supporting the space exploration and robotics company Mission Control in developing concepts that will inform the Canadian Space Agency's (CSA) future lunar rover (Lunar Utility Rover).

As part of a consortium of leading Canadian technology companies, Rheinmetall is contributing its globally recognized expertise in autonomous ground vehicles. The team is developing proposals for the mission-critical Guidance, Navigation, and Control (GNC) subsystem to enable future missions on the lunar surface.

#### Rheinmetall PATH

The proven Rheinmetall PATH autonomy system forms the technological basis for the rover's Guidance, Navigation, and Control system. The project underscores the successful dual-use synergies between civilian space research and robust defense technology.

The technological heart of the GNC proposal is the Rheinmetall PATH autonomy system. PATH is a world-leading, AI-based software solution for unmanned ground systems (UGSs) that has already proven itself in the defense sector and in commercial applications around the world. PATH's robust architecture forms the foundation for the rover's autonomous navigation. The future lunar rover is set to support astronauts on long-term missions, perform logistical tasks, and ensure cargo transport on the Moon.

The integration of Rheinmetall PATH builds on Canada's decades-long leadership in space robotics. Early CSA rover development programs enabled early PATH development to directly shape autonomous surface navigation in extreme environments. Rheinmetall Canada has successfully translated these research-driven approaches into operational, commercially successful military and industrial technology. The current project closes this loop and brings the advanced technology back to space exploration.

"The integration of PATH into the Lunar Utility Rover brings together decades of Canadian innovation in the fields of autonomy and space robotics," explains Pietro Mazzei, President and CEO of Rheinmetall Canada. "This project strengthens the local supply chain and underscores the advanced technological capabilities of Canadian industry."

Headquartered in Ottawa, Provectus is fully integrated into the global structures of Rheinmetall Canada and Rheinmetall AG. Through this project, Rheinmetall once again demonstrates its ability to scale state-of-the-art, Canadian-developed autonomy technologies for critical missions worldwide—today on Earth and tomorrow on the Moon.

### ► Key facts

- Mission Control partners with Provectus Robotics Solutions for the Canadian utility rover.
- The rover's GNC subsystem will integrate the world-leading PATH autonomy system.
- The utility rover will support astronaut operations and logistics on the Moon.
- The program strengthens Canada's leadership in autonomy, robotics, and space exploration.

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