

## 38. The Falcon Hears the Falconer

In 2014–2015, SpaceX embarked on Elon Musk's visionary quest for a reusable rocket with the development of Grasshopper, a Falcon 9 prototype equipped for landing. This period marked significant advancements and challenges, including a notable event at SpaceX's McGregor, Texas facility. Here, amid the anticipation of SpaceX board members and the newly appointed chief of staff, Sam Teller, a test launch faltered due to an engine malfunction, leading to an explosion. Despite this setback, the incident solidified Musk's resolve and highlighted the company's forward-thinking culture, even in the face of failure.

SpaceX's ambition extended beyond technical achievements to broader visions, such as Mars colonization and the development of space suits, underscoring the company's unconventional approach to space exploration. Meanwhile, competition with Jeff Bezos's Blue Origin emerged as both companies achieved milestones in rocket reusability. Bezos's success with a suborbital flight prompted a spirited exchange between him and Musk, underscoring the competitive spirit driving innovation in the space sector.

The culmination of SpaceX's efforts came on December 21, 2015, with the successful launch and landing of an upgraded Falcon 9. This achievement followed an earlier launch failure that tested the company's resilience. Musk's gamble on a new liquid oxygen fuel approach paid off, demonstrating his knack for pushing technological boundaries. The successful landing, celebrated with euphoric elation by Musk and the SpaceX team, marked a significant milestone in space travel, emphasizing reusable rockets' feasibility. Despite Bezos's veiled critique of the achievement, Musk's triumph underscored SpaceX's leadership in the new era of space exploration, blending technological prowess with a bold vision for the future.