

LambdaG

ACCELERATING ANTENNA PRODUCT DEVELOPMENT FOR SPACE

ABOUT

LambdaG is a company that specializes in developing innovative radio frequency (RF) components and antenna systems for small satellites, aerospace, and defence applications.

The company was established in 2018 and focuses on delivering cutting-edge solutions through collaborations with strategic partners, such as NewSpace Systems.

LambdaG prioritizes space-qualified antennas and additive manufacturing in its mission to pioneer new technological advancements in the field.

CHALLENGE

LambdaG faced a significant computational obstacle, which hindered innovation and market entry.

Additionally, to achieve defense industry standards LambdaG required enhanced security and expanded product capabilities for non-symmetric and electromagnetic (EM) symmetry exploration.

SOLUTION

LambdaG acquired Altair's Multi-Physics/ Mechatronics Engineer (now Enterprise), using FEKO for non-symmetric antenna simulations, enhancing design capabilities, and securing a server for defense projects.

RESULTS

- FEKO tackles LambdaG's high-frequency EM simulation challenges.
- Swift workflow for intricate non-symmetrical antennas in a secure environment.
- Achieved R&D milestones, assembling a K/ Ka-band horn antenna for SmallSats.
- Contributed to projects like EOS SAT-1 TT&C antenna design without straining resources.

“ A huge sigh of relief knowing that a solution for any simulation problem will be prioritised. ”



Dr Vernon Davids
CEO/Technical Lead