

AUTOMATING SOLAR DESIGN TECHNOLOGY WITH AERIAL INTELLIGENCE

Aerialytic and Nearmap

GOLDEN, CO U.S.

AERIALYTIC

Aerialytic, a North American based solar technology company, is pioneering AI-driven solar design automation. Their software helps solar providers scale their business by allowing them to create instant designs using artificial intelligence and effectively provide accurate installation quotes to customers.

MEET AERIALYTIC

The company is innovating at the intersection of technology and sustainability, pushing the boundaries of what's possible in the solar industry. Aerialytic's state-of-the-art, proprietary algorithms reconstruct intricate roof segments, accurately portray on-roof obstacles, and virtually recreate homes and their elements in vivid 3D — creating a comprehensive digital reality.

Aerialytic doesn't stop there. They understand the importance of adaptability in a world of change. Every prediction they make is fully editable directly within Aerialytic's intuitive software platform. This allows for extended analyses such as calculating the impact of tree removals or other environmental changes on solar production.

Aerialytic is not just innovating solar solutions - they revolutionize the way we interact with and understand the power of the sun.

CONNECT THE DOTS

When it comes to solar, Bardia Andalib, CEO and Co-Founder of Aerialytic, says that every company has the same problem: communication. From customer prospecting to design and installation, the solar industry has been historically fragmented. This requires a game of telephone where roof measurements, energy consumption, solar coverage, and materials and labor costs must converge in order to adequately answer customer questions.

When a prospect asks Bardia how much they will save on energy costs with solar, the answer always boils down



to "It depends." Why are solar calculations so complex? The variables that go into proposals include shading, roof characteristics, the hardware required, and more.

While the technology to calculate solar costs exist, it's mostly a manual process — one that can take upwards of 15 minutes per property.

In the realm of solar computations, accurate shading calculations are critical. To that end, Aerialytic teams its algorithms with Nearmap data. This tech combo successfully calculates precise shading measurements for correct solar estimations in a fraction of the time it takes to do manually.

nearmap



“If I wanted to do a single design for every home in the United States, it would take me over 2,200 years.”

Bardia Andalib, CEO and Co-Founder of Aerialytic

EVERYTHING UNDER THE SUN

More than the basic top-down view of the world offered by other imagery providers, Aerialytic required true aerial intelligence. Nearmap provides total ground truth — from up-to-date aerial coverage to immersive 3D data. Aerialytic integrates Nearmap advanced aerial intelligence models to streamline high-resolution renderings for their solar design projects.

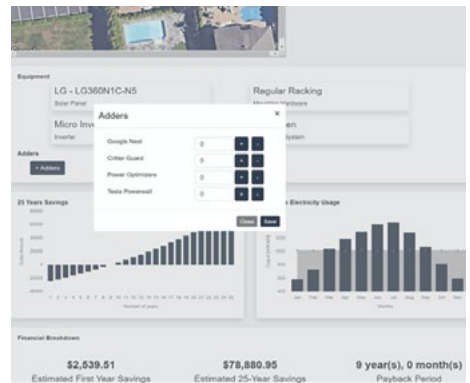
Details matter in quoting, and Nearmap empowers Aerialytic’s quotes to be as accurate as possible. Why? Because Nearmap data adds dimension to their estimates and can help Aerialytic answer questions like:



How many panels will you need?



What areas of the roof get the most sunlight throughout the day?



What are the estimated savings for going solar?

Solar designs bring with them many variables to consider. By integrating the consistent coverage and depth of data of Nearmap into their platform, the quotes and visualizations generated by Aerialytic provide solar installers and sales teams with the most informed estimates, on demand.





A BRIGHT FUTURE

With a team that's "eternally invested in research and development," Aerialytic is committed to propelling the evolution and success of solar energy. As the company continues to incorporate Nearmap into their workflows, Aerialytic helps solar professionals effectively reduce the complexity and costs of projects by empowering rapid, accurate designs through a combination of artificial and aerial intelligence.

"There's always more that can be done. With Nearmap data and coverage, coupled with our technology, we empower solar professionals to accelerate adoption and growth."

Bardia Andalib, CEO and Co-Founder of Aerialytic

AI is a fluid technology that is continuously pushing past previous limitations. As AI creates new possibilities in the solar space, Bardia works behind the scenes to ensure that Aerialytic is an adaptable solution that's capable of evolving with the technology that facilitates its existence. A major aspect of turning Aerialytic into a permanent solution for solar professionals is strategic partnerships, such as the one they have with Nearmap.

AERIALYTIC AND NEARMAP

Precision is paramount in the solar industry, and that's a truth that Aerialytic honors at every step. They meticulously measure every element to the millimeter, ensuring their accuracy is not just best-in-class, but also reliable for all calculations.

Many aerial imagery providers are unreliable when it comes to maintaining up-to-date surveys. And the cost of independently flying areas of interest are prohibitive to most — especially when hoping to serve millions of homes like Aerialytic. Nearmap tackles the task of obtaining property data at scale with a proactive capture program that collects ground truth on an annual basis.

Aerialytic is not only creating solutions for today, but is also continuously evolving for the needs of tomorrow. They utilize regularly updated Nearmap imagery and data, making certain that their solar estimation productions are always current, optimized, and ready to meet the dynamic needs of the solar industry.



NEARMAP FOR SOLAR:

For more information visit:
www.nearmap.com/solar

