

Introducing Geobotica



About Us

We deliver sensor, software and AI solutions for the mining and civil engineering industries. We develop patented, advanced technologies to solve geospatial and mining challenges. Our solutions mitigate risk and improve productivity.

At Geobotica, our focus is to deliver the best solution for our clients. Our people have the depth of experience in cutting-edge sensing and software development to deliver safety and productivity benefits to our customers.

We work at the intersection of sensing and software, using radar, lidar, computer vision, photogrammetry, AI and machine learning algorithms.

Our Values



Our Services

R&D Consulting

Geobotica offers research and development (R&D) consulting with a difference. We work in collaboration with companies to create technologies that fit your exact needs. We partner with customers on innovation projects.

Since 2021, Geobotica has delivered three patent-pending innovations. These solutions have been created in partnership with end-user companies who have laid out their sensing and monitoring challenges and worked with us to create a solution.

Custom R&D for Heavy Industries

Problem

Contact us about your problem. We'll tell you what is possible. This is a free consultation.

Proposal

We put together a proposal detailing how we will solve the problem and a project scope. We ask you for a minority financial commitment upfront.

Then we hold bi-monthly Sprint Review meetings as the project commences. This allows you to steer the technology to solve your problem.

Concept

Geobotica delivers you a proof-of-concept trial or demo at the end of the project.

Delivery

Your total investment can be refundable over time if you buy or lease the product on an ongoing basis. Geobotica retains any IP in the product.

Mining Tech & Hi-Tech Engineering Solutions

Geobotica mining tech solutions includes open-cut and underground sensors to provide assurance and minimise risk to your workforce.

Our expertise is also applied to civil engineering by delivering solutions that automate asset inspections, such as concrete bridges and roads in order to reduce human-safety risk and increase accuracy.

Our Technologies

AeroVoxel

AUTOMATED ASSET INSPECTIONS

AeroVoxel is an automated asset-inspection solution that combines survey-grade 3D mapping with artificial intelligence to detect and locate damage and defects in your infrastructure.

The patent-pending solution uses laser scanning to map as it moves, either mounted to a drone or hand-held, producing a photorealistic 3D model of your asset, while pinpointing defects in 3D.

This offers a range of industries a flexible solution to create data-enhanced digital twins and inspect for defects accurately and safely.

AeroVoxel simplifies asset inspection with real-time mapping and assessments, even in GPS-denied environments.



GeoLidar

LIDAR SURVEY AND MONITORING

GeoLidar is an automated real-time lidar system for use in roads, construction, mining, quarries and bulk commodities.

It uses lidar combined with artificial intelligence to reveal surface changes and volumes at millimetre-scale precision. It also scans very quickly, delivering survey-quality point clouds in full-colour.

A state-of-the-art technology, GeoLidar can monitor changes in real time while its software removes unwanted "noise" data from the scene enabling it be used on busy highways or roads, even as traffic continues. It has many useful applications so talk to us about how it could fit your needs.

Nanoradar

A RADAR THAT FITS IN YOUR POCKET

In partnership with AngloAmerican, Geobotica has developed a patented radar sensor for industry. The ultra-short range system has no moving parts, runs for months on a single charge, transmits data wirelessly and is small enough to fit in your pocket.

It has a range of applications from mining to health, from robotics to fluid height measurements. We would like to chat with you about how it may help your operation."





Contact Us

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