

**ELOGIUM**

HIGH-PRECISION SPARE-PART MODELLING

Roboze
ARGO 960

ABOUT

Elogium, founded in 2021 and based in Sasolburg, provides on-demand additive manufacturing and reverse-engineered spare parts across Sub-Saharan Africa.

By swapping metal components for high-end engineering polymers or metal 3D prints, the team shortens lead-times and boosts plant uptime.

Advanced simulations, 3D-printing expertise, and local production let Elogium deliver rapid, cost-effective parts not only when OEM spares are unavailable, but also through the development of creative new ideas that help improve OEE.

CHALLENGE

Earlier CAD tools could not produce the complex geometry or clean STL files needed for industrial 3D printing. Each redesign required extra clean-up, wasted time, and risked print failure. Elogium needed intuitive software that turned intricate concepts into print-ready data on the first attempt.

SOLUTION

Implementing **SOLIDWORKS Professional** to create complex models, check STL quality, and export print-ready files in one step.

RESULTS

- Faster modelling accelerates on-demand spare-part turnaround
- Clean STL files reduce failed prints and scrap
- Single toolkit shortens engineer learning time
- Accurate simulations boost customer confidence

“ The system is easy to use and packed with powerful features. ”



Henk Harmse
CEO