

Azerbaijani Biomedical Engineer Introduces DiaFoot Guard Pro to Advance Diabetic Foot Prevention

Developed by biomedical engineer Elgun Ahmadov, the innovative concept integrates pressure, temperature and bioimpedance monitoring to support early detection of diabetic foot complications.



Lisboa e Vale do Tejo, Portugal Oct 21, 2026 ([Issuewire.com](https://www.issuewire.com)) - Azerbaijani biomedical engineer Elgun Ahmadov has introduced DiaFoot Guard Pro, an innovative medical technology project designed to support the early identification of diabetic foot complications through an integrated monitoring approach.

The project combines three key technologies: plantar pressure measurement, temperature monitoring, and bioimpedance analysis within a single intelligent platform.

A New Approach to Diabetic Foot Prevention

Diabetic foot complications remain a significant challenge for healthcare systems worldwide. Changes in foot pressure distribution, localized temperature differences, and tissue-related abnormalities may provide important information about potential complications.

DiaFoot Guard Pro aims to bring these measurements together, offering a more comprehensive

approach to risk assessment.

Unlike systems that focus on individual parameters, the proposed platform integrates multiple sensor technologies and processes the collected information to support the identification of potentially concerning patterns.

Engineering Innovation from Azerbaijan

Developed by biomedical engineer Elgun Ahmadov, the project reflects an interdisciplinary approach combining biomedical instrumentation, sensor technology, embedded electronics, and digital health monitoring.

The proposed system includes pressure sensors, precision temperature sensors, bioimpedance measurement electronics, and a touchscreen interface designed to present measurement results and risk-related information.

Its architecture also incorporates wireless connectivity, creating opportunities for future remote monitoring applications.

Potential Applications in Healthcare

DiaFoot Guard Pro is being developed with potential applications in preventive healthcare, diabetic foot assessment, clinical monitoring, and home-based health management.

The long-term objective is to support healthcare professionals and patients with accessible, multi-parameter information that may contribute to earlier recognition of diabetic foot risks.

The project remains a medical technology development initiative. Clinical performance, diagnostic accuracy, and effectiveness will require appropriate testing and validation before medical use.

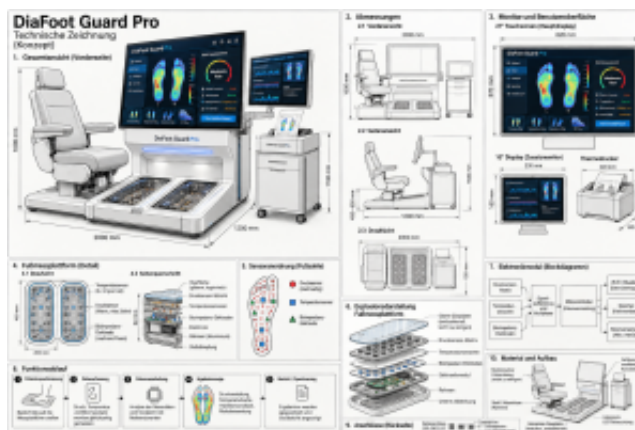
Looking Toward the Future

DiaFoot Guard Pro represents an Azerbaijani engineering initiative focused on addressing an important global healthcare challenge through the integration of biomedical sensors and intelligent monitoring technologies.

Future development priorities include prototype evaluation, technical refinement, and exploration of clinical research opportunities.

About DiaFoot Guard Pro

DiaFoot Guard Pro is a biomedical engineering project developed by Elgun Ahmadov in Azerbaijan. The concept focuses on integrating pressure, temperature, and bioimpedance measurements to support research and development in diabetic foot risk monitoring.



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Source : DiaFoot Guard Pro

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