Ángulo Automatic Goniometer



By Paramo Innovations

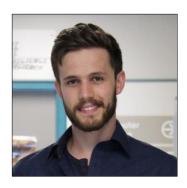
Introduction

Paramo Innovations consists of Caleb Schulz and Gregory Russell. We are both students in the Electronics and Computer Engineering Technology program at Camosun College. Our project, the Ángulo is an innovative joint flexibility self-measurement device. The primary applications for the Ángulo are in the fitness and physiotherapy fields.

Our Project

The Ángulo is unique in that no other goniometer allows a user to measure their own flexibility. Goniometers range from simple jointed rulers to laser-sighted digital devices but they all require one person to measure a second person. An *Android* smartphone application allows remote operation of the Ángulo.

Our Team



Caleb Schulz

Software Design & Hardware Configuration

Caleb wrote the software for the *Arduino*-based architecture and chose the hardware used in the project. He also wrote the *Android* application used with the *Ángulo* device.



Gregory Russell

Exterior Package Design & Power Management

Gregory designed the external packaging and hardware layout using *Sketchup*. He also dealt with the power management aspect of the project.

Conclusion

We at *Paramo Innovations* thank you and hope you enjoyed learning about the *Ángulo* automatic goniometer. While the project is self-funded, we would like to thank our instructors in the Electronics Department for their time and expertise, as well as Chad Paget for his 3D printing services. Please contact us at paramo.innovations@gmail.com for more information.