

# STROKE REHABILITATION WITH NEURAL STIMULATION AND MEASUREMENT WITH GRAPHOPEN

## GRAPHOPEN



We have developed a prototype of GraphoPen, which is a pen integrated with 2 sensors when writing on a paper measuring:

- Acceleration
- Pressure
- Time

### Business Description

GraphoPen is a startup project founded in September 2020.

We are offering a handwriting analysis system for various B2B and B2C applications.

### Products and Services

Health care handwriting analysis:

- Post-stroke rehabilitation measurement
- Prevention and tracking of medication: neurology illnesses, stress level, sleep quality, etc.



### Excellence

- Working prototype (MVP)
- Graphology expertise in collaboration with Graphology Institute Hungary
- Tests with 37 business employees



## HAND SIGNAL COMMUNICATION

It breaks down human movement into its elements:

- Hand shapes
- Hand shape gymnastics
- Movements without meaning
- Signals with meaning



### Business Description

Hand signal communication methodology with 639 movement elements was developed by Krisztina Puskás, it is on the market since 2018.

### Products and Services

"You are the sign" web app:

- 169 included in a unified system hand shapes
- 404 "Sign-Word-Treasures": signals from video
- 122 "Cultural Treasures": songs with instructions
- 166 special filters for unique developments



### Excellence

- Invited speaker at 6 Hungarian universities
- 14 post-stroke rehabilitation patients
- Nearly 200 fine motor measurements



## COLLABORATION FOR THE OBJECTIVE MEASUREMENT OF HAND SIGNAL EFFECTIVENESS

### Why Us

Interdisciplinary team with complementary competences:

- Hand signal communication
- Graphology
- IT
- Psychology
- Business consultancy
- Services Marketing

### Target group pain point solutions

- Reduce the number of doctor-patient visits
- Reduce the time spent in hospital
- Reduce the time reaching patient self-sufficiency

### Mission

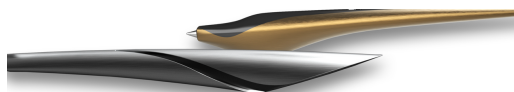
To provide post-stroke treatment with neural stimulation methodology and result monitoring with an innovative smart device through objective parameters, in collaboration with public and private health care institutions.

### Common Achievements

- GraphoPen tests before and after hand signal exercises with a total of 39 employees
- 24 testers: 61% increase in hand strength



Prozenda



### Hand signal communication



Krisztina Puskás  
Instructor & Entrepreneur

### GraphoPen Ltd.



Dr. Ágnes Somosi  
Founder & CEO



Dániel Kohlmann  
Founder & Hardware developer



András Kohlmann  
Founder & Software developer



Dr. Tamás Agárdi  
Founder & Founder of Graphology Institute

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