

# Awesome Ergometer



Rowing into the future

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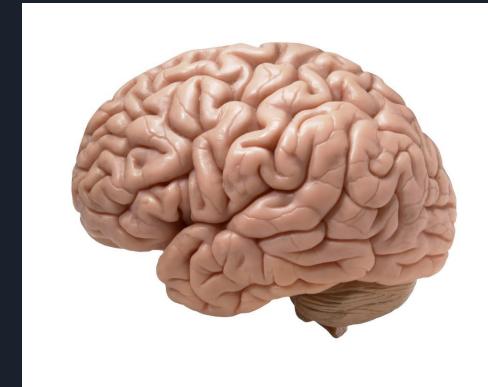
Laurenz Altenmüller

Martin Creutzenberg

Sebastian Müller





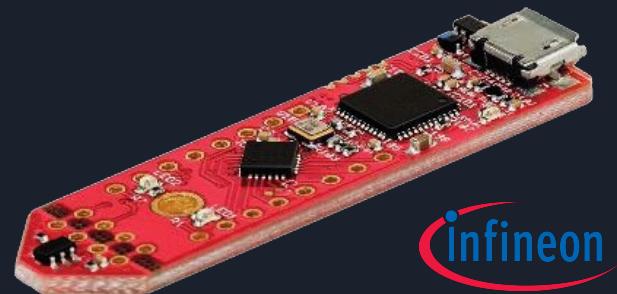




# Handle position



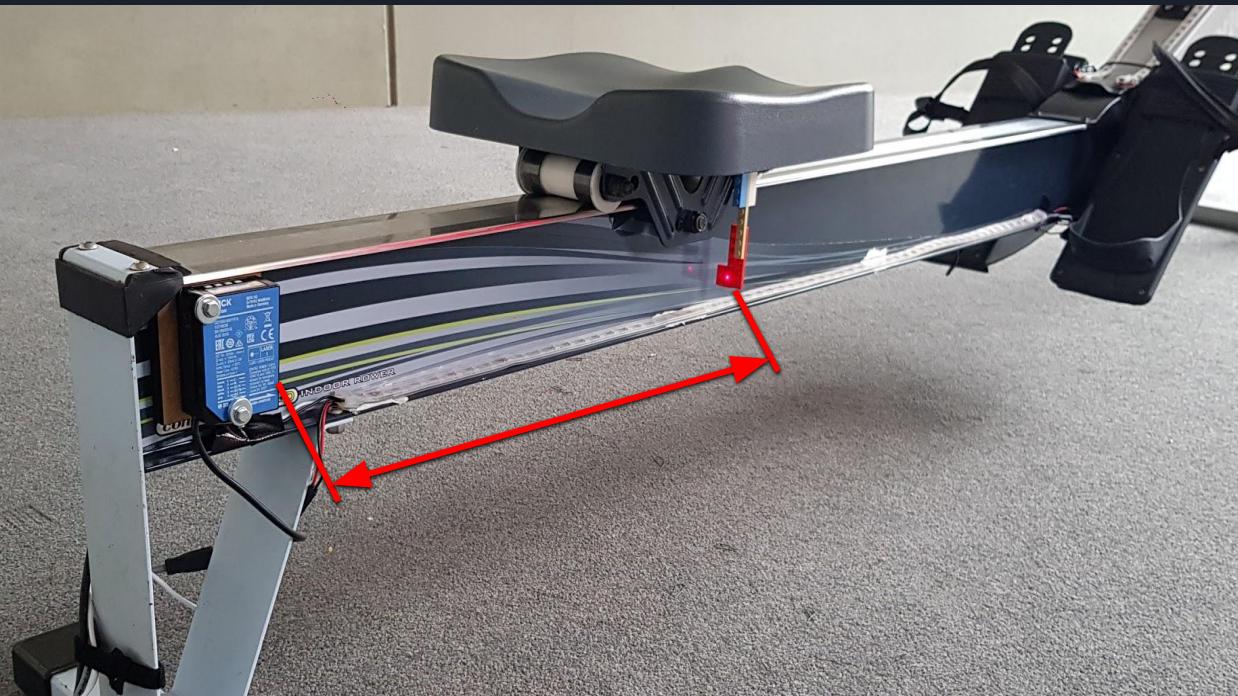
Rotating magnetic field,  
3D Magnetic Sensor





# Seat position

**SICK**  
Sensor Intelligence.

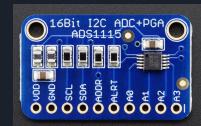


Laser triangulation sensor

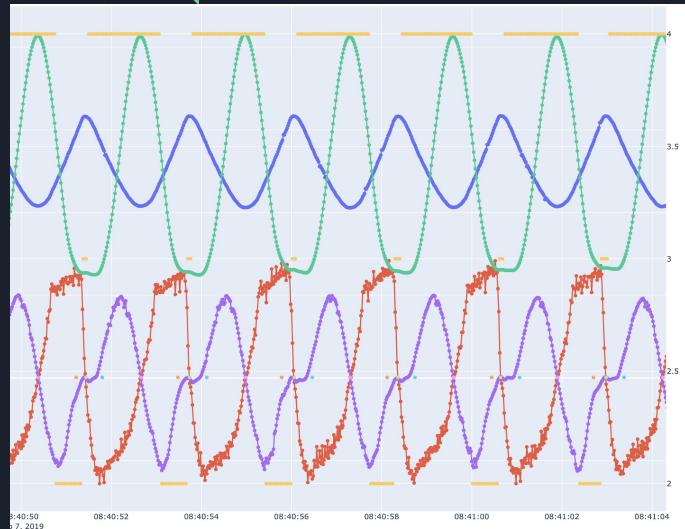
OD1000



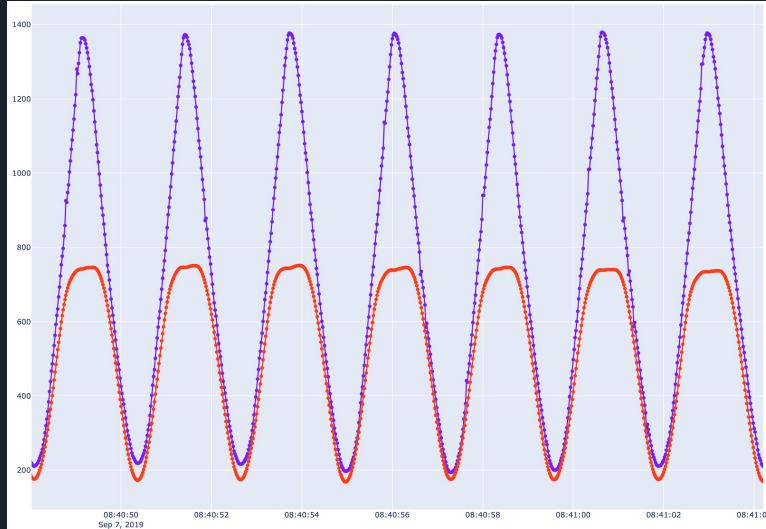
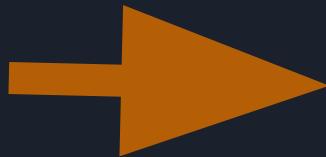
Analog digital converter



# Raw data is cleaned up and processed



Sensor noise, varying sample rate,  
different sources, unsynchronized



Handle position    Seat position



LIVE DEMO





# Who is using Concept2?

All age groups

Olli Zeidler



Cross Fit



- College Recruiting
- official World records



# Target Customers



## Gym Owners:

Healthier and more efficient training  
Less instruction time for new members



## Amateurs with machine at home:

Comparison with other rowers  
Individual technique advice



## Professionals:

Detailed analysis  
Synchronization with team members



“Awesome Idea!”



# Business

## Hardware:



Retrofit-Kit in Aftermarket



## Online:



**For Free:**

Storage and visualization of Data



**Subscription:**

Advanced automated evaluation



**On Request:**

1 on 1 Coaching

Row with us into the future



# Awesome Ergometer





# Rowing into the future

Awesome rowing machine: Assistance

<https://www.youtube.com/watch?v=Owztq-mSMel>

Awesome rowing machine: Motivation

[https://www.youtube.com/watch?v=G4LVUWbew\\_E](https://www.youtube.com/watch?v=G4LVUWbew_E)