

The Equalizier

Mechatronikprojekt von
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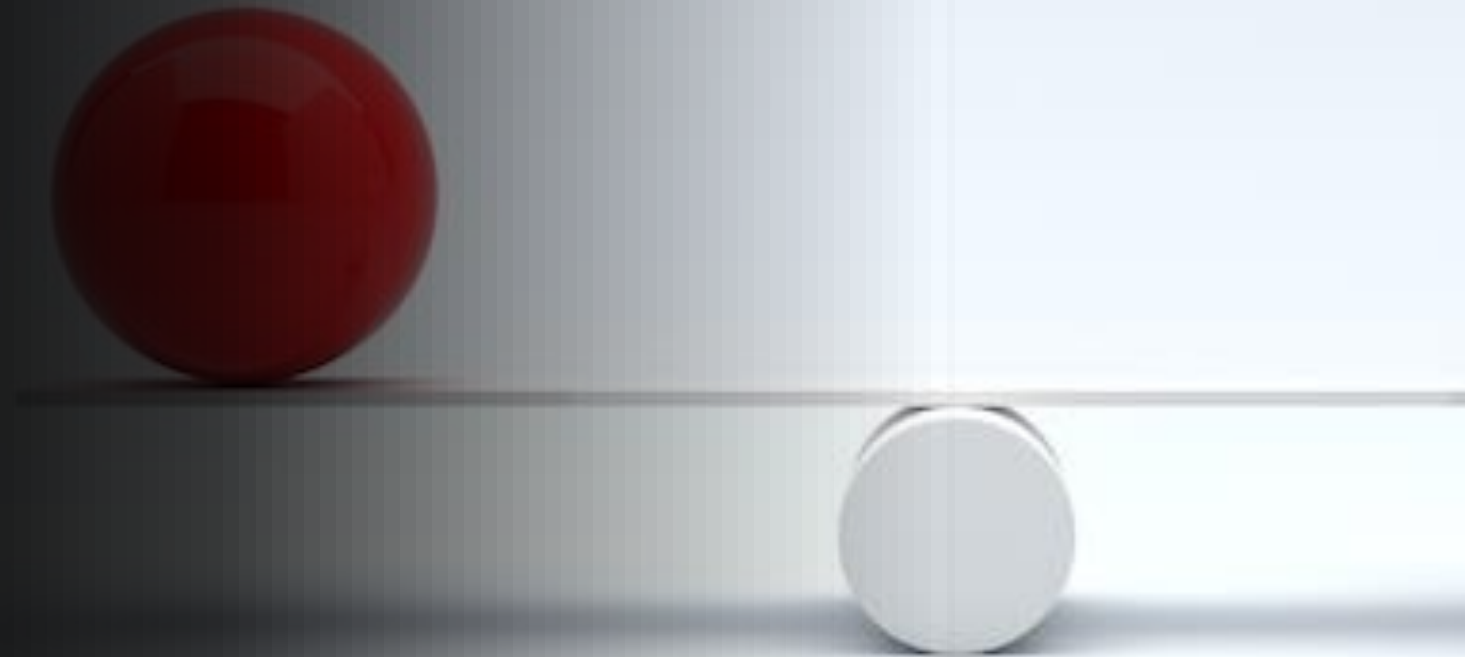
Gliederung

- Grundidee
- Evolution
- Finaler Stand
- Allgemeine Probleme
- Ausblick
- Forum



Grundidee

- Grundlagen der Mechatronik kennenlernen
- Eine Kugel 2D balancieren

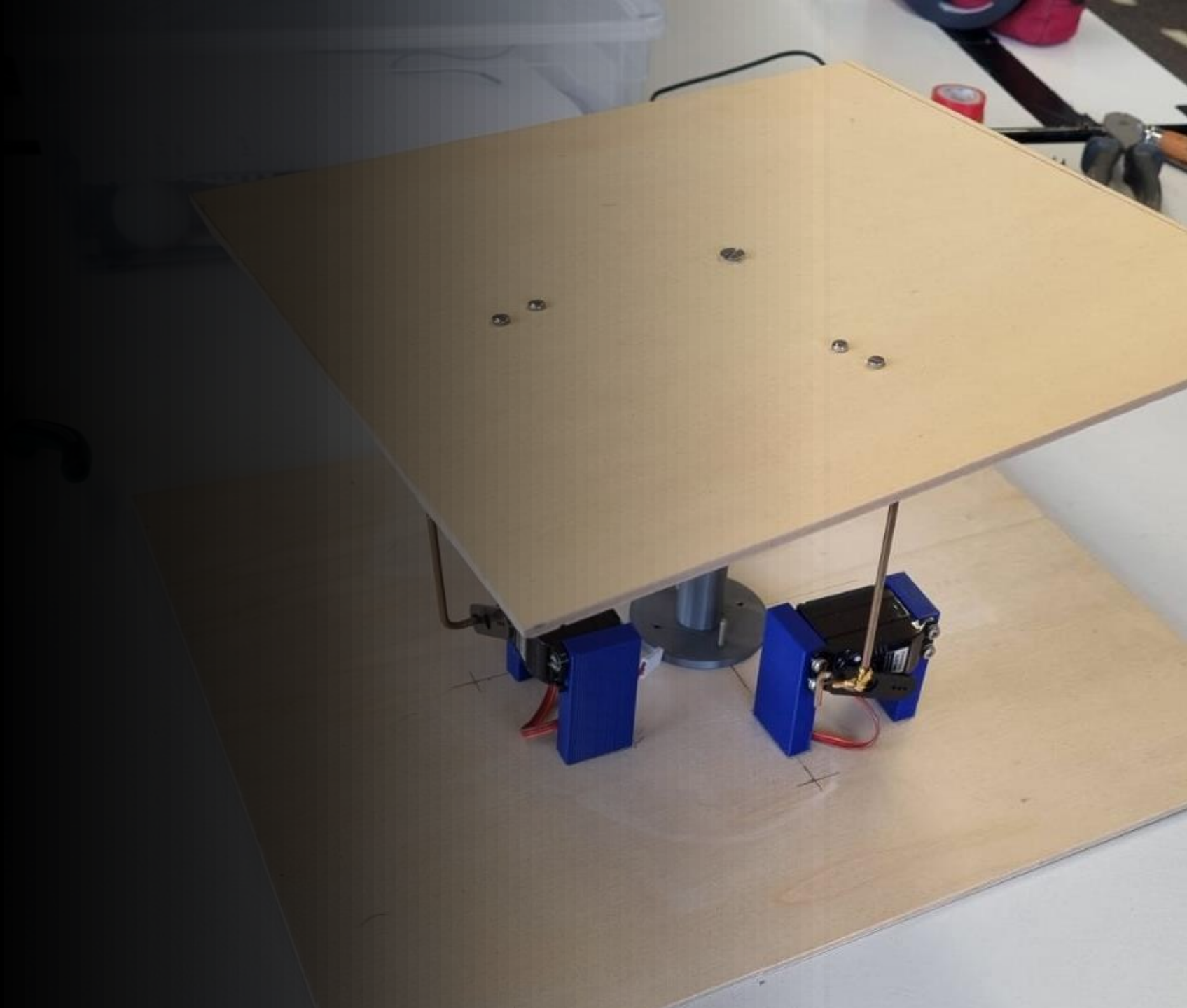


— Evolution

Stufe 1

Probleme

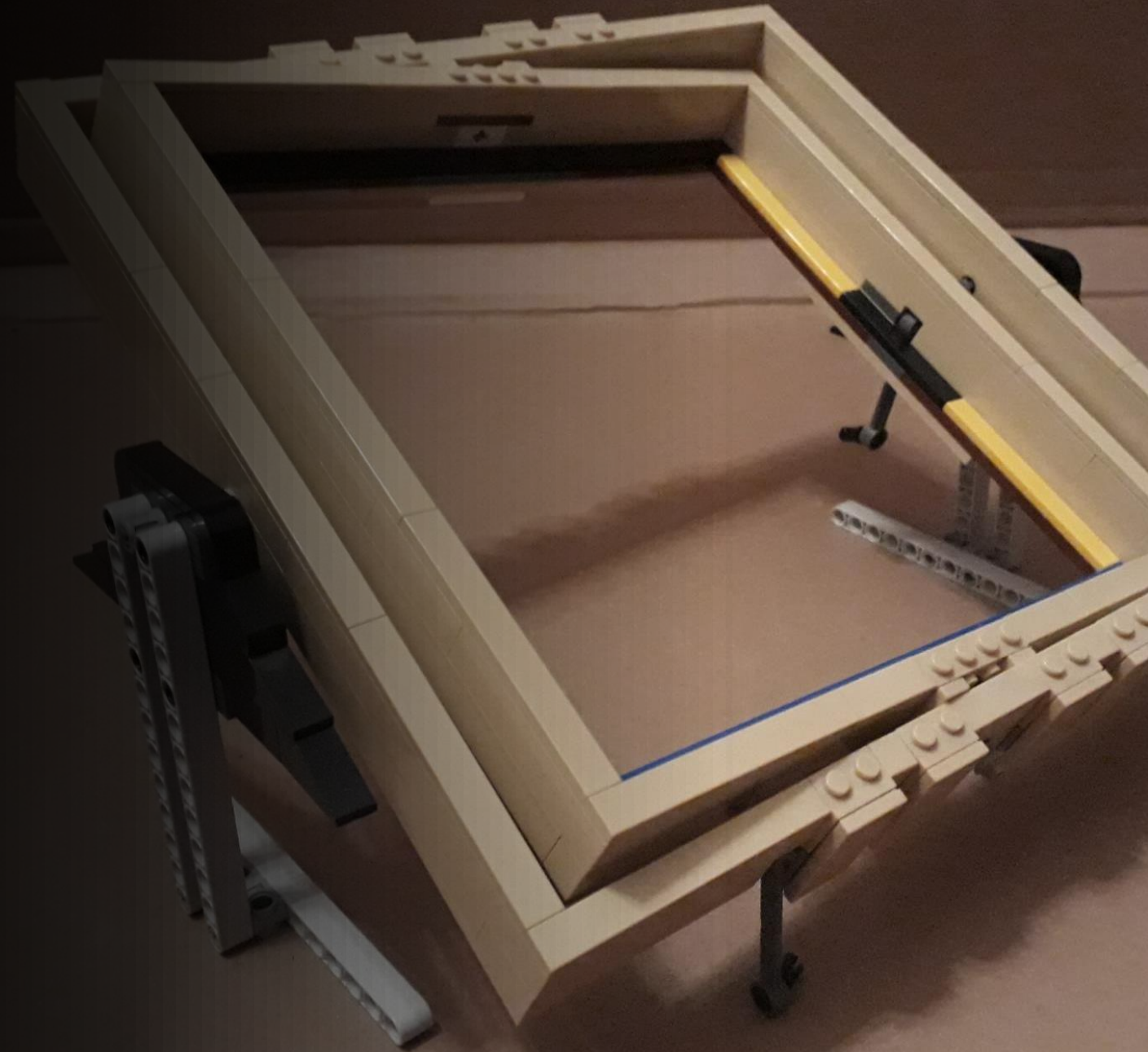
- Sensoren
- Stabilität
- Komplexität



Stufe 2

Probleme

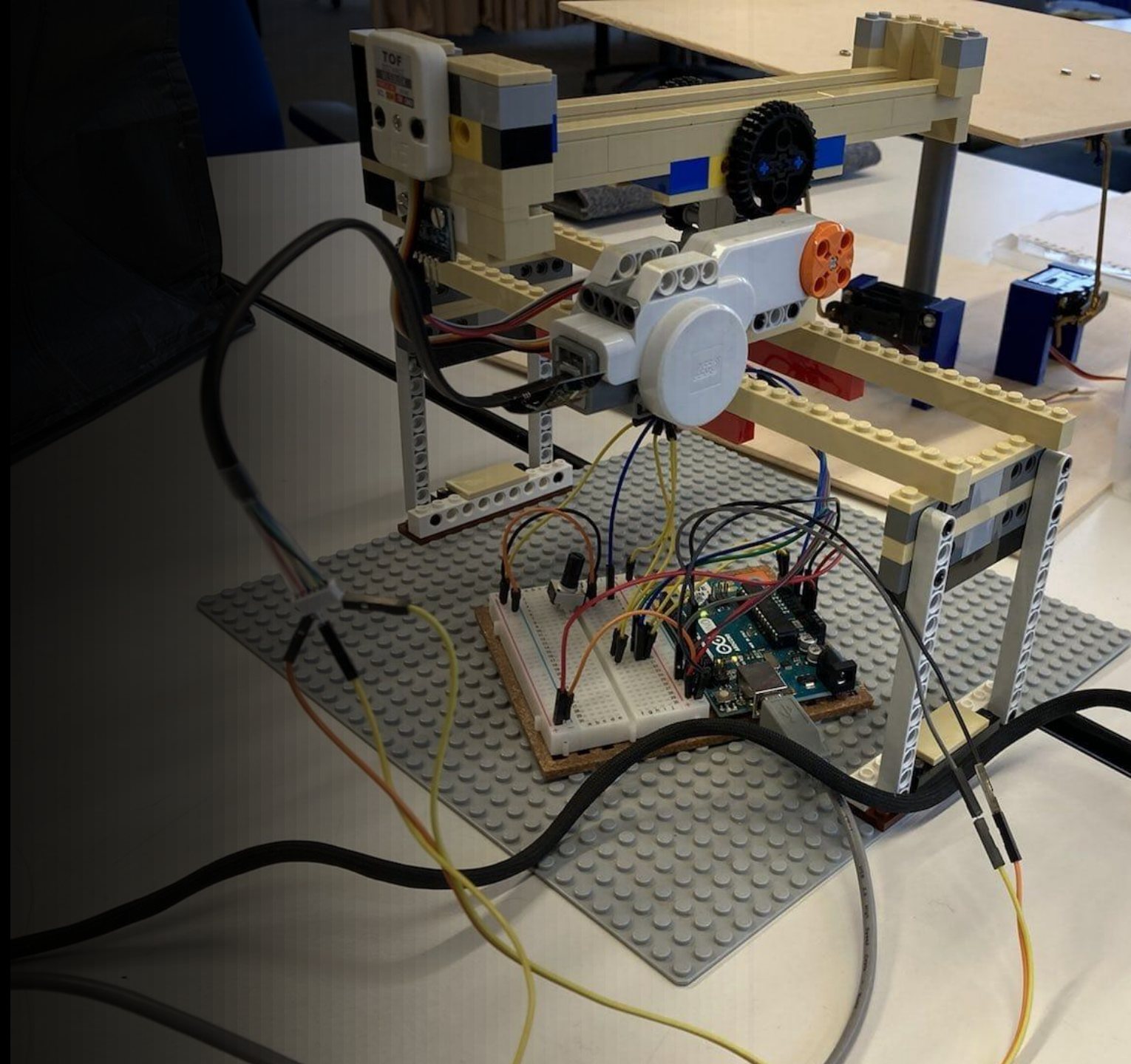
- Stabilität
- Bewegung



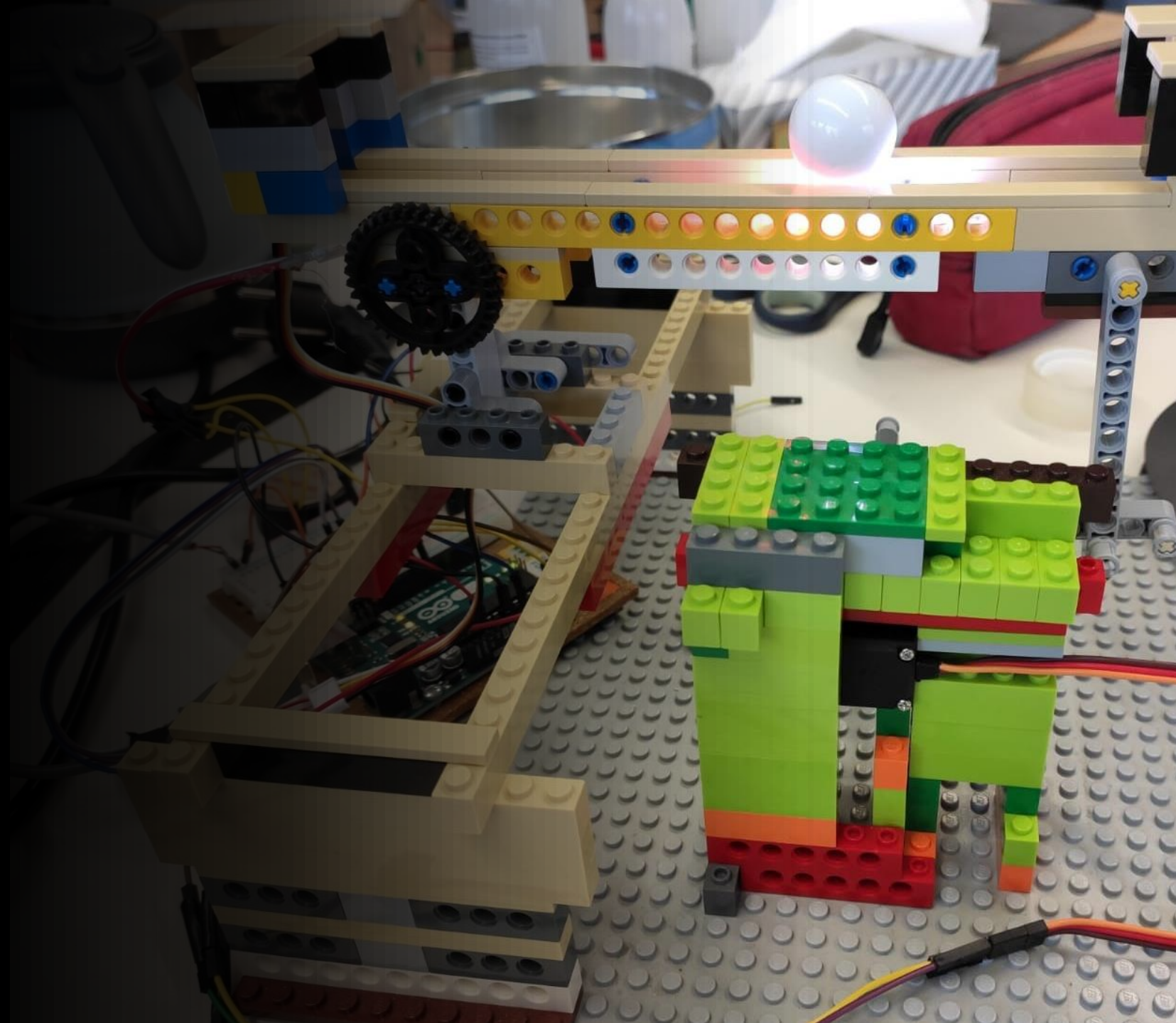
Stufe 3

Probleme

- Geschwindigkeit
- Grob

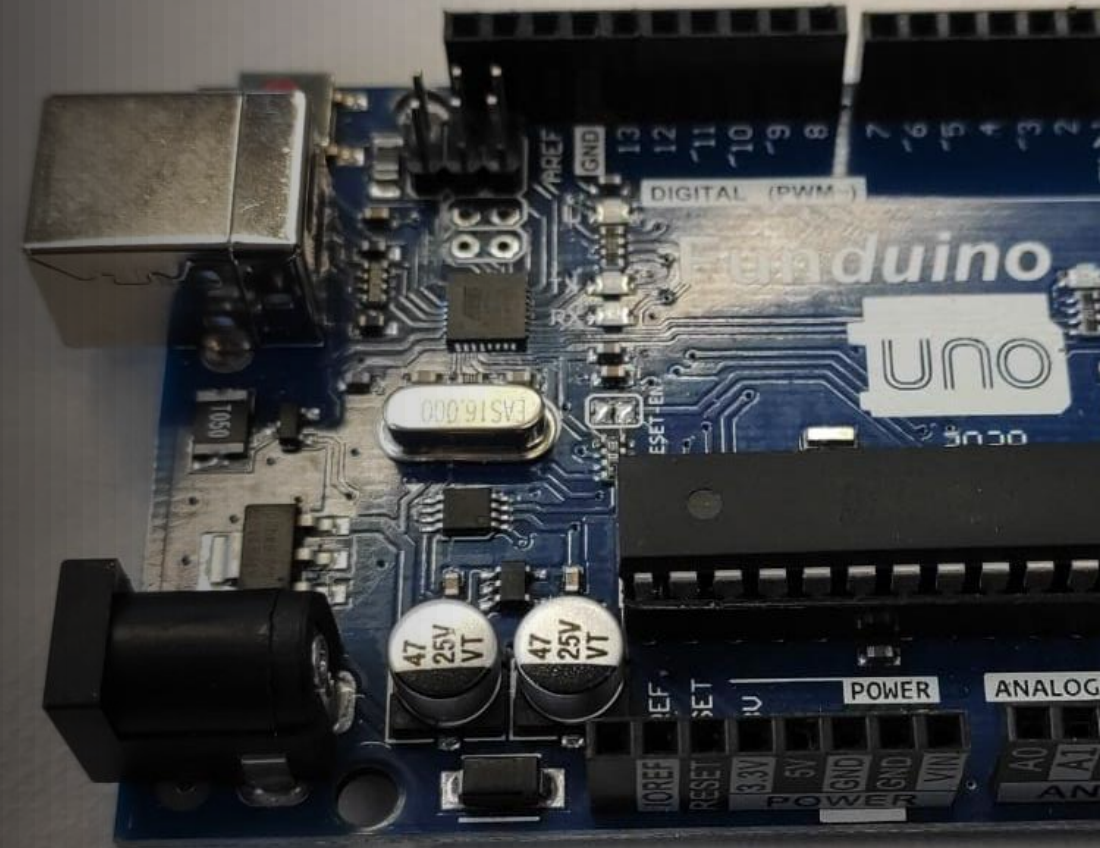


Finaler Stand



Allgemeine Probleme

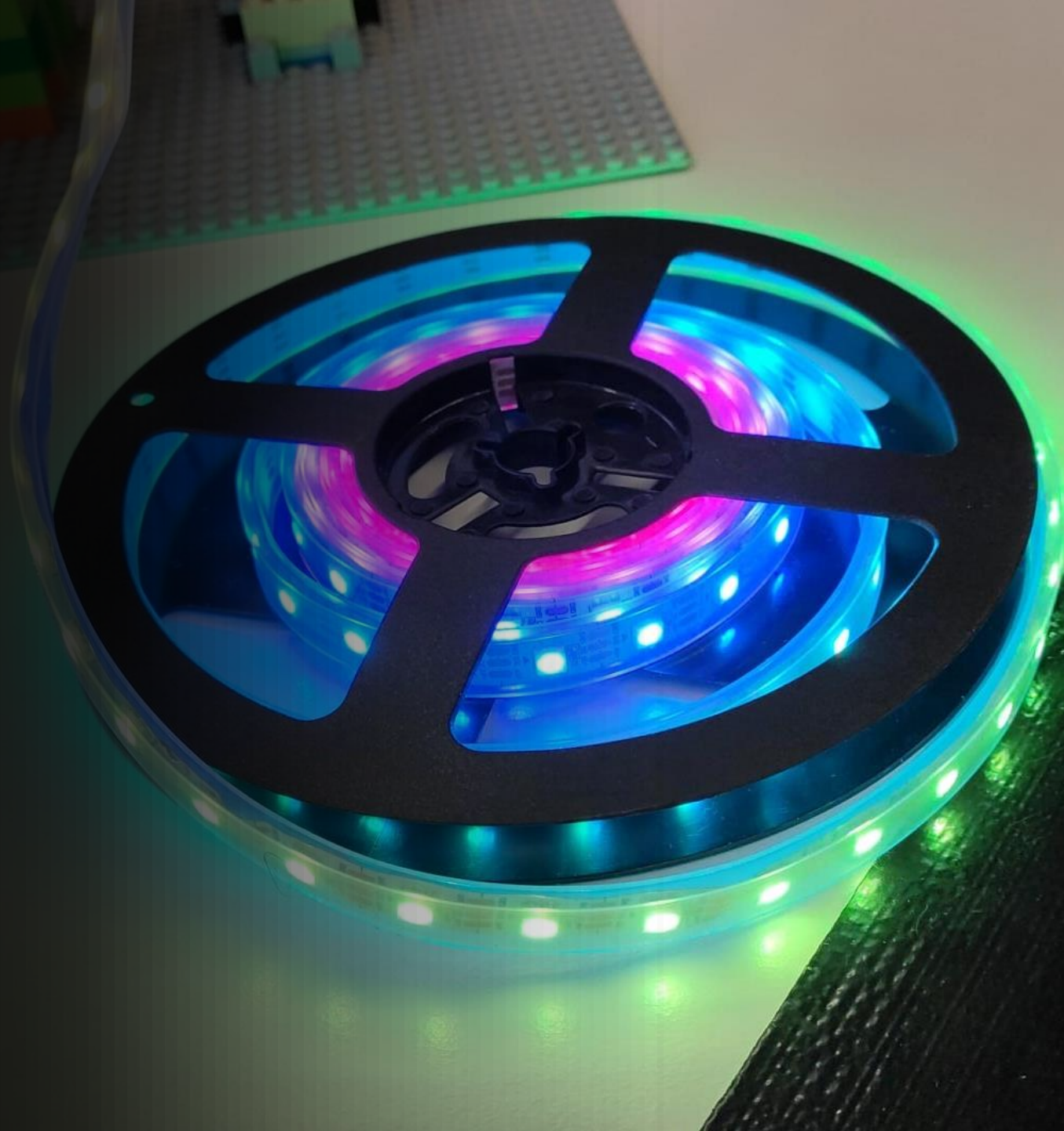
- Stromversorgung
- Kabelmanagement
- Materialengpässe
- Passgenauigkeit





Ausblick

- LED-Übergänge
- Größere Dimension
- 2 Dimensionen
- Optimierung des P.I.D.s



Forum

- https://www.mintgruen.tu-berlin.de/robotikWiki/doku.php?id=mechatronik:wise21:kugel_balancieren