**Variabelen**

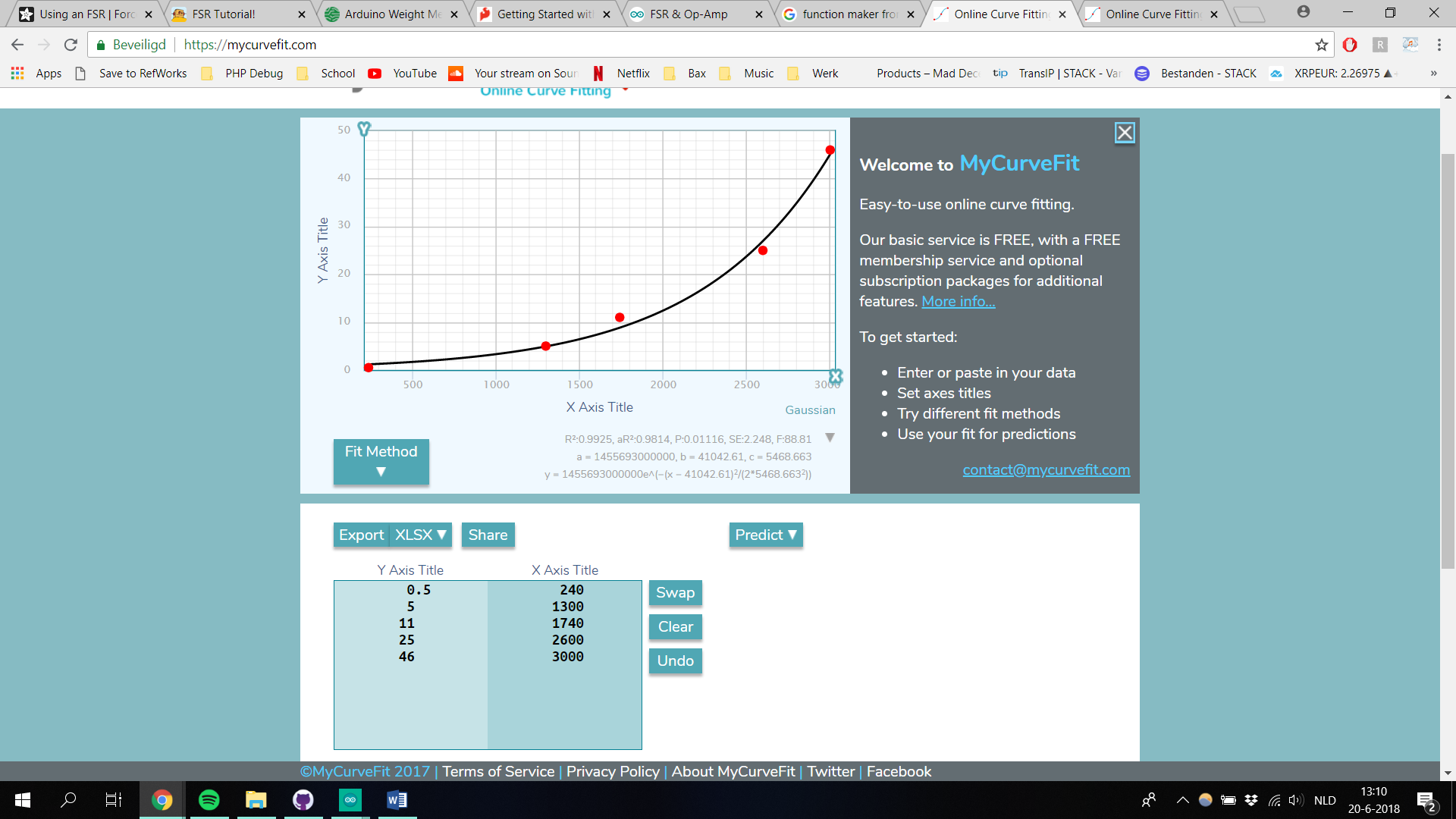
* Alpha: Hoekversnelling **[rad/s2]**
* Omega: Hoeksnelheid **[rad/s]**
* Tlinks : Koppel Linkertrapper **[Nm]**
* Trechts : Koppel Rechtertrapper **[Nm]**
* Tfietser : Koppel Fietser **[Nm]**
* Tmotor : Koppel Motor **[Nm]**
* Tnetto : Koppel Netto **[Nm]**
* Km motorconstante **[Nm/√W ]**
* Ke : Mechanische Constante **[]**
* J : Massatraagheid **[kg m2]**
* Uk : Klemspanning **[V]**

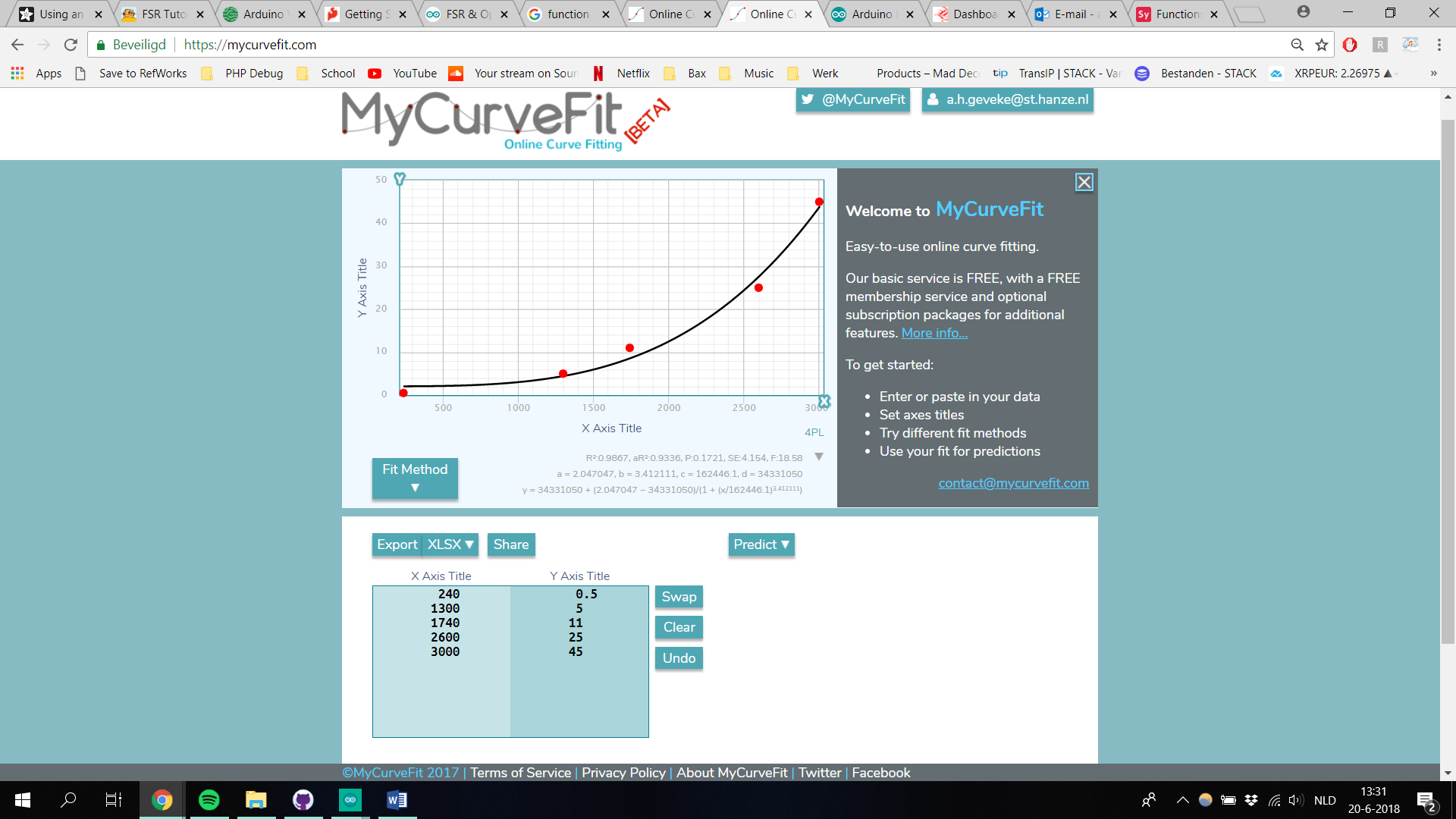
**T = Iα**

*T = koppel   
I = Massatraagheidsmoment  
α = hoekversnelling*

Sensorwaardes FSR402 (*Druksensor*)

|  |  |
| --- | --- |
| Kracht [Newton] | Voltage [mV] |
| 0,5 | 240 |
| 1,0 | 600 |
| 5,0 | 1300 |
| 11 | 1740 |
| 21 | 1900 |
| 25 | 2600 |
| 46 | 3000 |





**Formule:** y = 34331050 + (2.047047 - 34331050)/(1 + (x/162446.1)^3.412111)

|  |  |
| --- | --- |
| Kracht [Newton] | Voltage [mV] |
| 0.5 | 240 |
| 5 | 1300 |
| 11 | 1740 |
| 25 | 2600 |
| 45 | 3000 |