

# Ir. M.Y. Barel



## Personal details

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Name Barel, Marije Yolinde  
Date of birth 15 October 1992  
  
Place of birth Amersfoort  
Nationality Dutch

## Education

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2015 – Nov 2017 Master of Science in Mechanical Engineering  
Track: Precision and Microsystem Engineering (PME)  
Group: interactive mechanism and mechatronics  
Graduation project: Static balancing of MEMS devices  
(2016-2017)

2017 Jan-Apr Studying abroad, 3 months  
As part of Graduation project: Static balancing of MEMS devices  
*Max Planck Institute for Intelligent Systems, Stuttgart, Germany*  
*Dept. Physical Intelligence*

2016 - 2017 Wood badge<sup>i</sup>  
*Scouting Nederland*  
  
*TU Delft, Delft*

2011 – 2015 Bachelor of Science in Mechanical Engineering  
Minor: Technology Based Entrepreneurship (2013)  
Graduation project: A shape memory alloy actuated trailing edge  
airfoil for a 10 MW wind turbine (2014)  
*TU Delft, Delft*

2005 – 2011 Athenaeum, profile: N&T, N&G 't Atrium, Amersfoort

*Languages: English C2, Dutch C2, German A2.*

*Programs: Ansys, Solidworks, Comsol, Matlab, Photoshop*

## Professional skills

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2018 Started my own company in Illustration work: MyBesign (marijebarel.nl)

2018-2019 Onderzoekstechnicus Linear Plasma Denerator  
*Differ, Eindhoven via detacheerder GreenGenius*

2016 – 2017 Wood badge  
*Scouting Nederland*

2014 Drivers Licence (rijbewijs B)

2009 – 2010 Declaration of competence in Cubscouts<sup>ii</sup>  
*Scouting Nederland, Utrecht (province)*

2008 CPR 't Atrium, Amersfoort

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## Interests and Personality

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I am a team player, pragmatic, social, creative, problem solver, open minded. People describe me as very independent, and having a lot of initiative.

## Experience

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2016 – 2017	Volunteers Trainer, Training Team <i>Roverway 2018 (European Camp Scouting)</i>
2013 – 2014	Vice-head of food tent, camp-activity <i>NaWaKa (National Water Camp scouting)</i>
2013 – 2014	NL Contingent , Communication Team <i>World Scout Moot, Canada</i>
2013 – 2014	Treasurer in the board of directors of De Delftsche Zwervers <i>Student Scouting Association “ De Delftsche Zwervers”, Delft</i>
2012 – 2016	Collegerama Operator, recording lectures (professional equipment) <i>TU Delft, Delft</i>
2011 – 2017	Camps for children with special needs (During camps): Team leader, Program leader, Child leader, Food Chef <i>Student Scouting Association “ De Delftsche Zwervers”, Delft</i>
2011 – 2015	Commissions <i>Student Scouting Association “ De Delftsche Zwervers”, Delft</i>
	11-12 News folder, editor
	11-12, 13-15, 15-16 Weekend camp
	11-15 Camps for children with special needs <sup>iii</sup> organiser, team leader
	13-14 Management of maintains work
	13-14 Financial advice
	15 – Present Reunion Book
2011	International Service Team (IST) : Cooking, Catering, Introduction-game leader <i>World Scout Jamboree, Sweden<sup>iv</sup></i>
2008 – 2011	Cub scout leader <i>Scoutinggroep Cay-Noya, Utrecht</i>
2008 – 2011	Child minder <i>Open Hof (church), Amersfoort</i>
2008 – 2011	Re-stocker of shelves <i>Super de boer Budding/ C1000 Budding, Amersfoort</i>

## Papers

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*“Permanent preloading by acceleration for statically balancing MEMS devices”*

M.Y. Barel, D Farhadi Machekposhti, J. L. Herder, M. Sitti, N. Tolou, 2018.

(IEEE: <https://ieeexplore.ieee.org/document/8449866/> )

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<sup>i</sup> The Wood badge course is a personal development course for scouts leaders. It is acknowledge all around the world.

<sup>ii</sup> Educational track in Scouting about how to be a leader for the age of cub scouts, 7 to 11.

<sup>iii</sup> The association organises camp for children with special needs, this can be poor or mentally-behind/handicapped children..

<sup>iv</sup> Scout camp with 40.000 participants from around the world, IST jobs basically do everything that needs to be done to keep the camp running.