

Curriculum Vitae

Brandon Caasenbrood was born in Roermond, the Netherlands, on April 29th, 1993. After finishing his secondary education at the Broekhin college in Roermond in 2011, he studied Mechanical Engineering at the Eindhoven University of Technology (TU/e) in Eindhoven, the Netherlands. In 2016, he did an internship project at the Royal Melbourne Institute of Technology (RMIT), Melbourne, under the supervision of prof. Liuping Wang focusing on nonlinear Kalman filters for autonomous drones using onboard inertial and ultrasound sensor measurements. He obtained his BSc and MSc degrees (with honors) at Eindhoven University of Technology in 2014 and 2017, respectively.



In September 2017, he started as a junior researcher within the Dynamics and Control group at the Department of mechanical engineering of the TU/e. Later, in February 2018, he started his PhD on the topic of design, modeling and control of soft robots under the supervision of dr.ir. Alexander Pogromsky and prof.dr. Henk Nijmeijer. The work focuses on both theoretical and practical aspects related to the design, modeling and control of soft robots. This research is part of the Wearable Robotics perspective program, a Dutch research program funded by the Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO). The main results of his research are presented in this dissertation.