

## **Work experience**

Since 2015	Scientific employee at BEST – Bioenergy and Sustainable Technologies GmbH (former: BIOENERGY 2020+ GmbH)
Since 2020	Senior Researcher – Automation and Control
2018 - 2020	Researcher – Automation and Control
2015 - 2017	Junior Researcher – Automation and Control
2005 - 2013	Technical intern at different companies
2013	Kristl, Seibt & Co
2012	Magna E-Car Systems GmbH & Co OG
2012	Liebherr-Werk Nenzing GmbH
2011	ISA - Innovative Systemlösungen für die Automation
2009	Kristl, Seibt & Co
2007 / 2008	Andritz AG
2005 / 2006	Magna Powertrain AG

## **Education**

2015 - 2020	Ph.D. candidate of Control Engineering at Graz University of Technology
2009 - 2015	M.Sc. in Electrical Engineering at Graz University of Technology with specialisation in Automation and Mechatronics
2008	A-levels at HTBLuVA BULME Graz with specialization in Electrical Engineering and Automation

## **Research Areas**

- Control of plants based on gasification
- Modelling and simulation of fluidized bed gasifiers
- Forecasting methods for the heat load of buildings and heating grids

## **Selected Publications**

- Nigitz, T., Göllles, M., Aichernig, C., Schneider, S., Hofbauer, H., Horn, M.: Increased efficiency of dual fluidized bed plants via a novel control strategy, Biomass and Bioenergy 2020; 141:105688
- Nigitz T, Göllles M.: A generally applicable, simple and adaptive forecasting method for the short-term heat load of consumers. Applied Energy 2019; 241:73-81