

Dipl.-Ing. Clemens Hollenstein, BSc

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Education

since 02/2018

Graz University of Technology

- Doctoral studies in Electrical Engineering
- Elective: Automation and Control Systems
- Thesis: Modelling and control of fixed-bed biomass gasification systems

11/2014 – 06/2017

Graz University of Technology

- Master of Science in Electrical Engineering and Business
- Elective: Automation and Control Systems
- Thesis: Development of a Model-Based Control for the Synthesis of Mixed Alcohols from the Product Gas of a Biomass Gasifier

10/2010 – 11/2014

Graz University of Technology

- Bachelor of Science in Electrical Engineering
- Elective: Automation and Control Systems
- Thesis: Arduino based control of an inverted pendulum

09/2004 – 06/2009

Secondary technical college of Electronics, Rankweil

- Elective: Electronics
- A-levels

Publications

05/2022

Conference Proceedings + Poster – 1st author

Hollenstein C., Zemann C., Martini S., Gölles M., Felsberger W., Horn M.1,2., Increased Flexibility of A Fixed-Bed Biomass Gasifier through Advanced Control, Proceedings of the 30th European Biomass Conference and Exhibition, ETA-Florence Renewable Energies, 2022, 09-12 May 2022, 704-711

07/2020

Conference Proceedings + Poster – 1st author

Hollenstein C., Zemann C., Martini S., Gölles M., Felsberger W., Antolini D., Patuzzi F., Baratieri M., Horn M.1,2., Evaluation of the transient behaviour of a fixed-bed biomass gasifiers for demand-oriented electricity production, Proceedings of the 28th European Biomass Conference and Exhibition, ETA-Florence Renewable Energies, 2020, 06-09 June 2020, 464-476

- 11/2019 **Journal Paper – 2nd author**
 Antolini, D.; Hollenstein, C.; Martini, S.; Patuzzi, F.; Zemann, C.; Felsberger, W.; Baratieri, M. & Göllles, M., Assessment of the Behaviour of a Commercial Gasification Plant During Load Modulation and Feedstock Moisture Variation, Waste and Biomass Valorization, Springer Science and Business Media LLC, 2019
- 05/2019 **Conference Proceedings + Poster – 1st author**
 Hollenstein, C.; Zemann, C.; Antolini, D.; Patuzzi, F.; Martini, S.; Baratieri, M. & Göllles, M., Evaluation of the Operational Behaviour of Fixed-bed Biomass Gasifiers - A Novel Approach for Steady-state Analysis, Proceedings of the 27th European Biomass Conference and Exhibition, ETA-Florence Renewable Energies, 2019, 27-30 May 2019, 849-860

Professional Experience

- since 11/2016 **Bioenergy and Sustainable Technologies GmbH, Graz**
- Fulltime researcher and PhD student
 - Automation and control
 - Former Bioenergy2020+ GmbH (Junior Researcher)
- 03/2015 – 09/2016 **NXP Semiconductors, Gratkorn**
- Freelance worker in RFID and NFC
 - Laboratory, measurement test setup, 10-hour workweek
- 03/2013 – 01/2015 **Graz University of Technology**
- Tutor at the Institute for Technical Informatics
 - Technical Informatics Exercises 1 & 2, 4-hour workweek
- 07/2009 – 08/2010 **Bodemann GmbH, Dornbirn,**
- Fulltime hard- and software engineer
 - Developing, building and controlling sewer (pipe) robots
- 07/2006 – 09/2014 **Summer internship**
- Freelance worker at clever², apprenticeship training (Meusburger)
 - Hans Künz GmbH, Hardware engineering (Solid Works)
 - SIE system electronic, software technology analysis (HMI)
 - Leica Geosystems, software engineering (Standard C)
 - Bodemann GmbH, hard and software engineering (Visual Basic)
 - Julius Blum GmbH, layout design and production (Reports)
 - Zumtobel Lighting Group, (shift work) assembling
 - Vorarlberger Kraftwerke AG, maintenance and field engineering

Skills

- Languages German (mother tongue), English (B2)
- IT Matlab (expert), Standard C (basic), Visual Basic (basic)
 MS Office, Latex
- Hobbies Ultimate Frisbee, mountaineering, running, traveling