

Newsletter August 2022 (10^o Edition)

The AWARE team is happy to be back with our 10th newsletter filled with a review of past events from the first half of 2022 and the latest news about upcoming activities and opportunities in projects held with our partners in Germany, Latin America, China, and Finland.

Recap first half of 2022



I. eng.join! and enGlobe Students - Summer term 2022

During the 2022 Summer Term, the AWARE team welcomed six students from our partner universities, who arrived in Ingolstadt to start their studies and research projects at THI.

They have received scholarships within the AWARE Center programs enGlobe and eng.join!

Three undergraduate students, Felipe Pimenta Peralta, Gabriel Marcos Ponstein



II. 2nd AI@Motion Challenge

During June and July 2022 AWARE Center together with THI's Center of Entrepreneurship (CoE) have promoted the 2nd AI@motion Challenge. In this edition, the competitors had the task to develop new business ideas for "AI for mobility in rural areas".

The winner was THI's PhD Student Andreas Riegler with the project idea "VAMOS" (Spanish for "Let's go!"), which stands for "Valet Mobility Service" and is intended to help people living in rural areas,

Pereira and Yi Da Lin come from the UFSC Joinville and have attended this semester as exchange Students at THI.

Other two master's students have been doing their master's research at THI, Ketlen Possoli from UFSC Florianópolis with Prof. Ondřej Vaculín and Guilherme Maziero Volpato also from UFSC Florianópolis with Prof. Ulrich Tetzlaff.

Thiago Hoeltgebaum is PhD researcher from UFSC and has worked together with Prof. Hans-Georg Schweiger at THI.

especially elderly people, with more efficient personal transportation and logistics using IA chatbots to communicate with users.

He will have the opportunity to travel Brazil to visit our partner University of São Paulo. A special thank you to our jurors Prof. Dr. Marcio Lobo Netto from University of São Paulo, Michael N. Keller from CARIAD and Valentin Kamm from Achtzig20.

[Find out more about eng.join! and enGlobe opportunities](#)

[Read the review of the 2nd AI@motion Challenge](#)



III. THI's Students visit California (San José State University) – Digital Study Project 2022

In April 2022 THI students visited AWARE partner San José State University (SJSU) on a kick-off trip for the Digital Study Project 2022. The event had the onli support and participation of THI Professor Wolf-Diet Tiedemann and SJSU Professor Jon Pearce. Studer from both universities are collaborating and developing an application for industry partner SRI International Menlo Park, California. The project's name is bRight – Future, Cognitive Desktop. Its aim is to improve Human Machine-Interaction (HMI).

[Learn more about enGlobe opportunities here](#)

IV. Results of Cooperation between THI and UFSC (Materials Science)

The research was conducted by Professors Gabriel Benedet Dutra and Tiago Vieira da Cunha from Universidade Federal de Santa Catarina together with Professor Ulrich Tetzlaff from THI, Carlos Eduardo dos Santos and Georges Lemos. The result of the cooperation work was the publishing of a paper this year entitled "Microstructural Characterization of an ERNiCrMo-3 and Grey Cast Iron Interface Obtained via TIG Welding". This area has important and numerous industrial applications due to the improvement of wear and corrosion resistance of the welded surfaces.

AWARE Center is very proud to be part of this project, supporting the research networks, strengthening, and making possible the interdisciplinary technological and scientific cooperation between THI and UFSC.

[Read and know more about the research results](#)

V. THI's AI Researchers visit Finland

Researchers from THI's AI & Mobility Hub "Almotion Bavaria" visited partner universities and companies for a week in April in Finland. During the visit, they had the chance to see the research facilities at our partner university Turku University of Applied Sciences, for example, the HealthTechLab and the GameLab. Additionally,

THI's AI researchers had the opportunity to speak with researchers from Aalto University and had great discussion with industry partners Unieke and Silo AI. Thank you very much for having us!



[Learn more about AI@motion activities here](#)

VI. Participation at Hannover Messe

The AWARE Center has participated at the Hannover Messe together with THI at the shared stand of Bayern Innovativ GmbH between May 31st and June 2nd. We thank everyone that visited our stand.



VII. Report from Angelo about his research stay at THI

Angelo Abdallah Pelisson, a former enGlobe scholar holder from UFSC Joinville, who did his master research stay at THI during the Winter Semester 2021/22 under the supervision of Prof. Vaculín and Franz Plaschki from THI and Prof. Dr. Pablo Andretta Jaskowiak from UFSC Joinville. He tells a bit of his personal academic experience in Germany.

[See and know more about his research stay here](#)

VIII. Visit from SJSU students and professors at THI

In June 2022 a group of 4 SJSU and 4 THI students concluded their work on the Digital Study Project during the final project week at THI. The project including the industry partner SRI International has been carried out virtually between February and June 2022 in the area of Computer Science.

The final presentation of the results took place within the THI facilities and was broadcasted live to project partners across the globe. THI Professor Wolf-Dieter Tiedemann and SJSU Professor Jon Pearce supported the students during their virtual and on-site work. A second round of the Digital Study project in combination with a Spring School at SJSU in California is scheduled for early 2023.



[Learn more about enGlobe activities here](#)



IV. THI's AI Researchers visit Brazil

In May, a group of researchers from THI visited Brazil. They had the opportunity to visit our partner universities: University of São Paulo (USP), University of Campinas (UNICAMP), and FACENS, to exchange ideas and discuss possible research cooperation and exchange programs. Additionally, the researchers visited EMBRAER in São José dos Campos to see the plant and discuss joint projects. A huge thank you to our partners in Brazil for hosting us for a week!

[Learn more about AI@motion activities here](#)

X. THI's Students at very first time in UFSC Joinville within eng.join!

During the Summer Semester for the very first time, 3 Students from THI are having the opportunity to do an Exchange Semester in Brazil at our partner University UFSC Joinville at Joinville Campus after the period of restrictions due to the COVID-19 Pandemic and the return of in-person Semester.

The THI's students have been receiving scholarships within the AWARE program eng.join!, which has the goal to strengthen the relationship and build a long-lasting bridge between the undergraduate study courses of the Department of Mobility Engineering of UFSC Joinville and "Engineering and Management" of THI by providing scholarships for students to stay at the partner university and by enabling the exchange of professors teaching in the courses.

Linh Hoang, Valentin Pröpster, and Luis Fernando Nuñez Franco all students of Engineering and Management Bachelor Course at THI are attending this semester UFSC Joinville.



[Find out more about eng.join! opportunities](#)

Preview second half of 2022

Upcoming AWARE events:

I. Spring School at UFSC Joinville (September)

From 26 to 30 of September 2022, professors and students from both THI and UFSC will meet in person at UFSC Joinville Campus for an entire week of lectures and workshops in our Spring School event. The topic of this project week is “International Spring School: Industrial Engineering in the Digital Era”.

AWARE’s enGlobe project provides funding for this event, enabling 4 THI professors and 8 students to participate on the campus in Joinville.

II. International researchers from Brazil, China, and Finland will visit THI

In the second half of the year, researchers from University of São Paulo in Brazil, Turku University of Applied Sciences in Finland and South China University of Technology in China will visit THI. The DAAD project AI@motion International provides the means to bring THI’s researchers together with great international colleagues to discuss cooperation possibilities in AI & Mobility research.

Upcoming enGlobe events:

I. enGlobe researchers participate at EuroSuperalloys2022 conference in Bamberg

Current enGlobe scholarship holder Guilherme Maziero Volpato and former enGlobe scholarship holder Adriano de Souza Pinto Pereira from UFSC will be present at the EuroSuperalloys2022 conference in Bamberg, organized by the Deutsche Gesellschaft für Materialkunde e.V. (DGM). During a presentation they will present parts of their work, that deals with the development of advanced materials produced using additive manufacturing for applications in jet engine turbine blades.

Upcoming eng.join! events:

I. News calls for Outgoing Scholarships for Exchange Semester at UFSC Joinville will be released in August 2022

The new call of the program eng.join! for THI students to an academic exchange semester at UFSC Joinville during the March-July 2023 is about to open in the 2nd half of 2022. Successful applicants will receive scholarships to afford the travel and living costs in Brazil.

Keep connected with our website page to see the updates

New AWARE Fellows

Our eng.join! Fellows
Studies abroad at THI



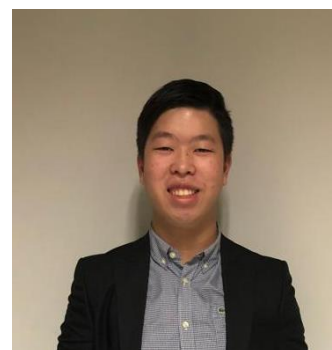
**Felipe Pimenta
Peralta**

Bachelor Student
Aerospace Engineering
(UFSC, Joinville)



**Gabriel Marcos
Ponstein Pereira**

Bachelor Student
Automotive Engineering
(UFSC, Joinville)



Yi Da Lin

Bachelor Student
Engineering of Transport
and Logistics
(UFSC, Joinville)

Our eng.join! Fellows
Studies abroad at UFSC Joinville



Linh Hoang

Bachelor Student
Engineering and
Management
(THI, Ingolstadt)



**Luis Fernando
Nuñez Franco**

Bachelor Student
Engineering and
Management
(THI, Ingolstadt)



Valentin Pröpster

Bachelor Student
Engineering and
Management
(THI, Ingolstadt)

Our enGlobe Fellows
Research stay at THI



Guilherme Volpato

Master Student in
Mechanical Engineering
(UFSC, Florianópolis)

With Prof. Dr. Ondřej
Vaculín



Ketlen Possoli

Master Student in
Engineering and
Mechanical Science
(UFSC, Joinville)

With Prof. Dr. Ulrich
Tetzlaff



**Thiago
Hoeltgebaum**

PhD Student in Robotics
and Mechanisms
(UFSC, Florianópolis)

With Prof. Dr. Hans-
Georg Schweiger

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