iPraktikum

Winter Semester 2022/23 - Info Meeting

Matthias Linhuber

Philipp Zagar

Christoph Weinhuber

Prof. Stephan Krusche

Why us?

only genuine
7RS
with the

Real clients

Real problems

Real data

Real teamwork

Real projects

Real deadlines

Real delivery

This is a **challenging**, but **rewarding** course!

Our Philosophy

"Tell me and I will forget.

Show me and I will remember.

Involve me and I will understand.

Step back and I will act."

(Chinese Proverb)

In this course, you will…

… develop a system in a mobile context for the iOS platform
This can include application servers, sensors, wearables, micro-controllers, etc.

… gain experience in an agile software project
Plan, design, implement, test, deliver using JIRA, Confluence, Bitbucket, Bamboo, Slack

… regularly deliver your apps to the customer and users
Understand, prioritize, and implement feedback from customers and end users

… improve your soft skills and learn to talk about your work
Hold presentations, tell a story about your project in an engaging live demo

Our expectations

Knowledge in OO programming languages and paradigms
Swift, Objective-C, Java, C++, C#, …

Basic skills in Modeling and Software Architecture
You understand e.g. UML Class and Component Diagrams

Willingness to work in a team
Real team work as well as communication with the customer.
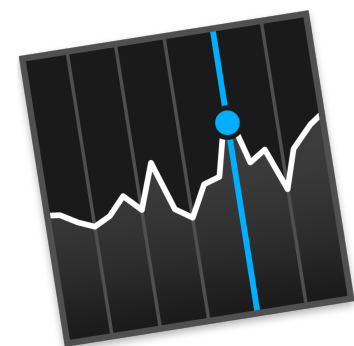
High motivation and flexibility
Challenging tasks require attention and commitment beyond a normal lecture. This course is worth 10 ECTS, plan your time accordingly.
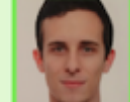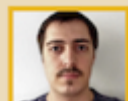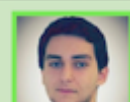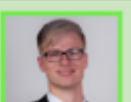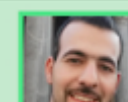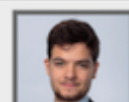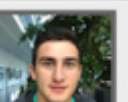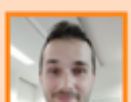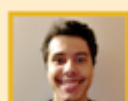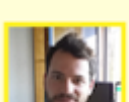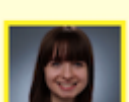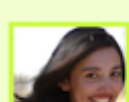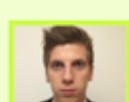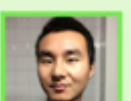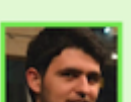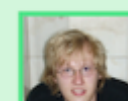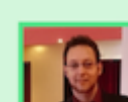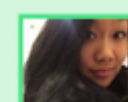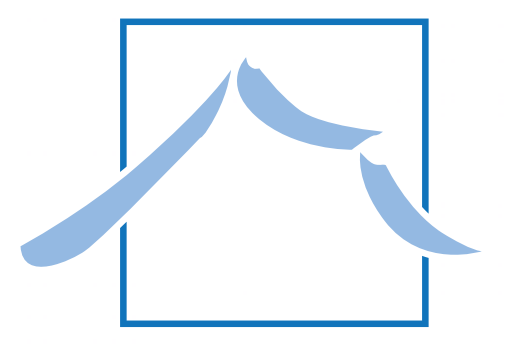
iPraktikum Overview

Infrastructure

Helma Schneider — Head of Technology Administration
Franz Beilmaier — Technical Administration
Monika Markl — Chair Secretary
Ruth Demmel — Head of Movie Team

adesso

Olaf Schumacher — Adesso
Sacha Catelin — Adesso

Project Management

Barbara Reichart — Project Leader
Stefan Kofler — Team Coach

Development Team

Annika Saken
Matthias Holdorf
Ghulam Nasir
Jonas Tomasini
Malte Bucksch
Sarah Jungwirth

BMW

Christoph Kracke — BMW

Project Management

Stephan Krusche — Project Leader
Florian Kistner — Team Coach

Development Team

Fabian Warthenpfuhl
Stefan Reu
Christian Eichhorn
Daniel Nilsen
Markus Jantunen
Marla Narazani
Patricia Vitoria Carrera

BOSCH

Matthias Schaffer — Bosch
Renata Soares — Bosch

Project Management

Dr. Yang Li — Project Leader
Stephan Rabanser — Team Coach

Development Team

Ange Laure Temzeung Kouemo
Ingo Glaser
Samit Vaidya
Agastya Fauzan Alfath
Christian Dallago
Michaela Pfister
Shivguru Rao Bhimasena Visweswera

B/S/H/

Pavel Osipov — B/S/H/

Project Management

Dora Dzvonyar — Project Leader
Alexander Harlass — Team Coach

Development Team

Ekaterina Sebina
Dennis Nehrenheim
Julian Zurmühl
Alexander Maslew
Belinda Zahra
Fabian Manhardt
Sami Amr Afifi
Tomas Ruiz

IGNITE Adaptive Sports — AT ELDORA MOUNTAIN RESORT

John Humbrecht — Ignite Adaptive Sports
Alan Apt — Ignite Adaptive Sports
Bernd Bruegge — Global Project Liaison

Project Management

René Milzarek — Project Leader
Sajjad Taheri — Project Leader
Sebastian Stein — Team Coach
Agnes Köhler — Team Coach

Development Team

Robert Krämer
Maximilian Reif
Laurence Castagnoli
Lukas Heinzmann
Samy El Deib
Philipp Heuer
Aldijana Sakinovic
Ding Liu
Carmen Breyer
Shpend Mahmuti

Quartett mobile

Leon von Tippelskirch — Quartett Mobile

Project Management

Sebastian Klepper — Project Leader
Jan Philip Bernius — Team Coach

Development Team

Kilian Käslin
Arald Haveriku
Jimmy Abu Al Denien
Florian Heinz
Florian Seppi
Manuel Nonnenmacher
Teodora Lata
Thu Lao

Cross-functional Teams

Coach Instructors

Lukas Alperowitz
Dora Dzvonyar

Modeling

Dora Dzvonyar
Florian Kistner
Stephan Rabanser

Release Management

Lukas Alperowitz
Jan Philip Bernius
Konstantin Kromer

Merge Management

Andreas Seitz
Alexander Harlass
Stefan Kofler

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Quartett mobile

Leon von Tippelskirch — Quartett Mobile

Project Management
Sebastian Klepper — Project Leader

Roche

Jens Pflüger — Roche

Project Management
Lukas Alperowitz — Project Leader

SIEMENS

Tobias Aigner — Siemens CT

Project Management
Andreas Seitz — Project Leader

SIEMENS

Dr. Asa MacWilliams — Siemens CT
Steffen Klepke — Siemens CT

Project Management
Zardosht Hodaie — Project Leader

T··Systems·

Dr. Stephan Verclas — T-Systems
Dr. Raman Tandon — WIWeB

Project Management
Constantin Scheuermann — Project Leader

Team Coach	Team Coach	Team Coach	Team Coach	Team Coach	Team Coach			Coach Instructors
Sebastian Stein / Agnes Köhler	Jan Philip Bernius	Marius Schulz	Alexander Meissner	Cecil Wöbker	Konstantin Kromer	Lukas Alperowitz	Dora Dzvonyar	

Development Team	Development Team	Development Team	Development Team	Development Team	Development Team			Cross-functional Teams
Robert Krämer / Maximilian Reif	Kilian Käslin	Thomas Breier	Simon Rehwald	Xiaoyu Guo	Josef Seidl	Dora Dzvonyar / Florian Kistner / Stephan Rabanser		**Modeling**
Laurence Castagnoli / Lukas Heinzmann	Arald Haveriku	Michael Fröhlich	Ramakant Agrawal	Daniel Gallenberger	Dimitar Magurev	Lukas Alperowitz / Jan Philip Bernius / Konstantin Kromer		**Release Management**
Samy El Deib / Philipp Heuer	Jimmy Abu Al Denien	Florian Dreier	Madhukar Sollepura Prabhu Shankar	Francisco Rubin	Valeria Chernenko	Andreas Seitz / Alexander Harlass / Stefan Kofler		**Merge Management**
Aldijana Sakinovic / Ding Liu	Florian Heinz	Gaurav Srivastava	Lara Marie Reimer	Christian Kiwitt	Aly Saleh			
Carmen Breyer / Shpend Mahmuti	Florian Seppi	Irina Camilleri	Monika Varshney	Lukas Steigerwald	João Trindade			
	Manuel Nonnenmacher	Kirsten Rauffer	Ning Wang	Marcus Hott	Richard Otto			
	Teodora Lata	Tobias Piffrader	Pedro Silva	Selina Elsner	Simon Zimmermann			
	Thu Lao							
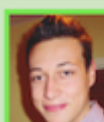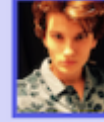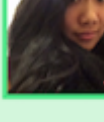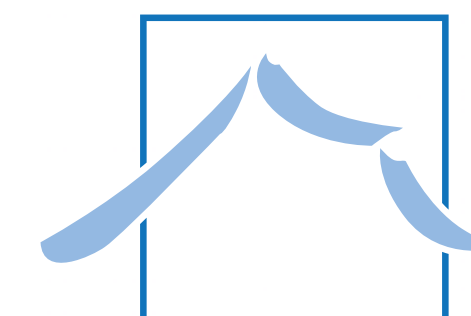
Impressions
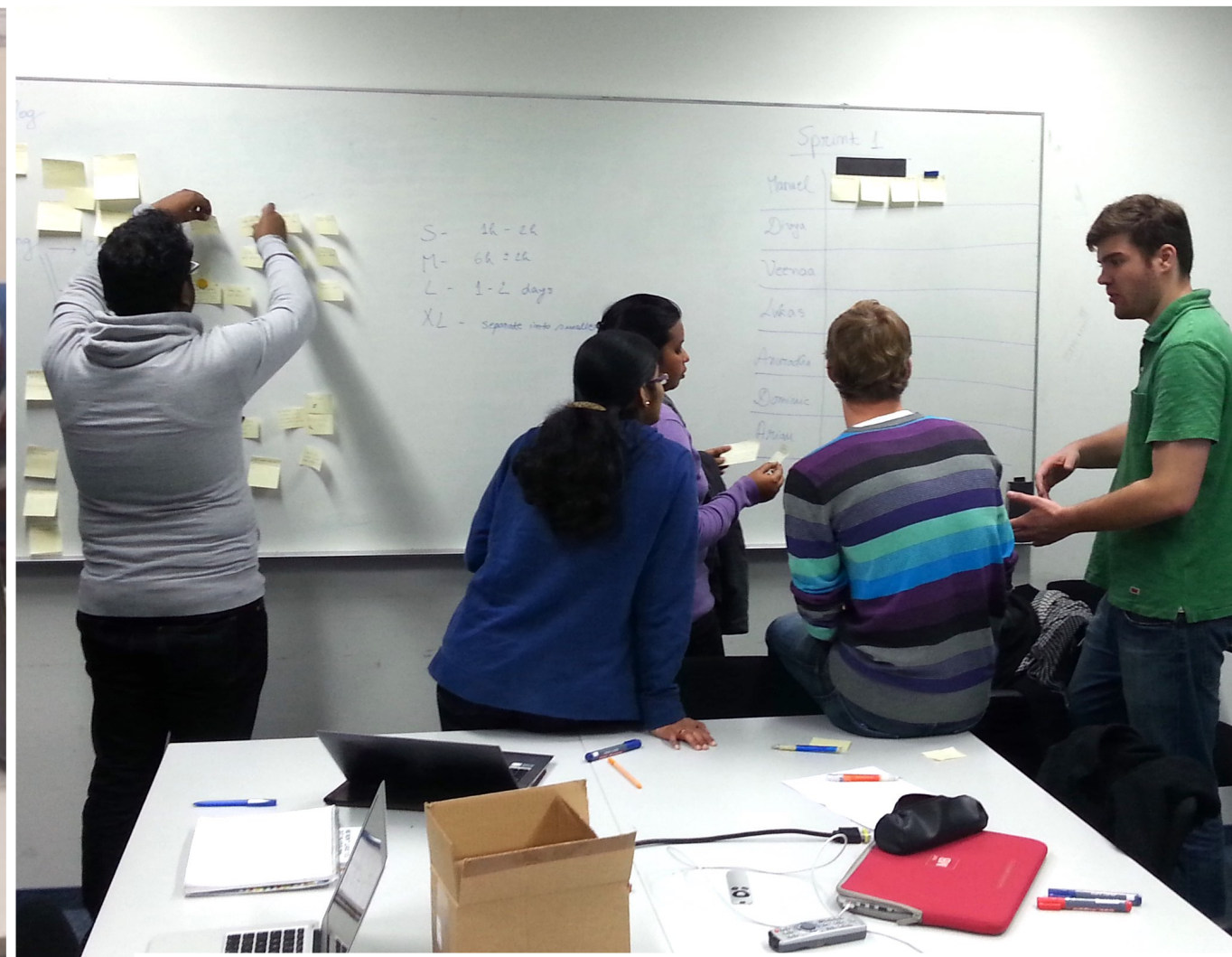
You have to either learn Swift or prove your iOS knowledge

Intro Course: Oct 10 - Oct 14 (Homework due Oct 19)
Intensive in-person course before the beginning of the iPraktikum
Introduction to Xcode, Swift, SwiftUI, Server-Side Swift, git…

In-person attendance is mandatory. No excuses.

Please make sure you can attend sessions full time (exception: repeat exams)

For iOS-experienced students: Creative challenge until Oct 3
As some students already have experience in Swift / iOS, we offer a possibility to prove your knowledge by submitting a Creative challenge (an iOS app). If we deem your submission good enough, one is able to skip the otherwise mandatory Intro Course.

However, mark that this challenge is hard. We strongly encourage you to attend the in-person Intro Course!

Schedule

Kickoff: October 20, 4:30 pm @ Interim HS1
All customers present their problem statements

Design Review: December 15, 4:30pm @ Interim HS1
Intermediate presentation of all projects with live demos and a buffet

Client Acceptance Test: February 09, 4:30pm @ Interim HS1
Final presentations of all projects with live demos and a buffet

Swift Bootcamp Schedule

(Preliminary)

October 2022

	Mon 10	Tue 11	Wed 12	Thu 13	Fri 14	Sat 15	Sun 16
08:30		Lab Time	Lab Time	Lab Time	Lab Time		
09:00	Getting Ready						
09:30	Introduction	Swift 2	Swift 3	Swift 4	Swift 5		
10:00						Lab Time	
11:00					What now?		
11:30	Mac 101						
12:30	Swift 1	App 2	App 3	App 4	Tutor Session 1		Lab Time
15:00	App 1	Lab Time	Lab Time	Lab Time	Tutor Session 2		
17:00	Lab Time				Lab Time		

Application

1 Express your intention by filling out form at <u>ipraktikum.in.tum.de/ios</u> and **complete a small technical challenge** <u>on Artemis</u>
Latest: July 27, 2022, 11:30 pm (Munich time)

iPraktikum Intro Course (WS22/23)

Exercises   Statistics   Communication   ⟳ Refresh   ▼ Filter (0)   ↕ Oldest

⌃   Jul 10, 2022 - Jul 16, 2022   Exercises: 4

Technical Challenge - Array Calculator
▶ Start exercise   Not released Easy
You have not started this exercise yet.
Due Date: in 12 days

Technical Challenge - Bookstore
▶ Start exercise   Not released Easy
You have not started this exercise yet.
Due Date: in 12 days

Technical Challenge - Developer
▶ Start exercise   Not released Easy
You have not started this exercise yet.
Due Date: in 12 days

Technical Challenge - Extending the Array Calculator
▶ Start exercise   Not released Easy
You have not started this exercise yet.
Due Date: in 12 days

Application

1 Express your intention by filling out form at ipraktikum.in.tum.de/ios and **complete a small technical challenge** on Artemis
Latest: July 27, 2022, 11:30 pm (Munich time)

2 Log in to the matching system of the Informatics department and make sure to give the iPraktikum your priority
Latest: July 27, 2021, 11:30 pm

3 You can check yourself if you have been matched to the course docmatching.in.tum.de/index.php/schedule
From: August 05

Further Information

- Check our website: ipraktikum.in.tum.de/ios

- Get an impression of the projects

  - Come to the Client Acceptance Test on the 27th of July, MI HS1

  - Talk to the participants and customers

  - Watch the recordings of previous terms on our website

- For all other questions write an email to ios@in.tum.de

Questions?

ios@in.tum.de

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