Huy Ngoc-Minh Thai (ESR9)

V15S6D84 University of Duisburg-Essen
Universitätstraße 15, 45141 Essen, Germany
Phone: +49(0) 201 183 3412, **Email**: huy.thai@uni-due.de
Day of birth: 7 November 1987, **Nationality**: Vietnamese

RESEARCH INTEREST

Piezoelectric Material
Computational Mechanics
Electromechanic Coupled Problem
Scanning Probe Microscopy
Polymers Material Technology
Material Manufacture

EDUCATION

4/2012 – present **Doctorate student in Mechanics**
University of Duisburg – Essen, campus Essen, Germany
Subject: Phase-field simulation of Ferroelectric materials

4/2011 – 4/2012 **Master student in Computational Mechanics**
University of Duisburg – Essen, campus Essen, Germany
Subject: Simulation using FEM, Numerical Methods

9/2005 – 4/2010 **B. Eng degree in Material technology**
Technology University of Ho Chi Minh, Vietnam
Subject: Polymer technology

WORKING EXPERIENCE

4/2014 – 5/2014 **External researcher**
Robert – Bosch GmbH, Stuttgart, Germany
Developing COMSOL model for "Electrochemistry Strain Microscopy"

5/2010 – 12/2010 **Technical supports**
Loc Phuc Nhien Join Stock Company, Ho Chi Minh city, Vietnam
Organize and manage technical equipment

8/2009 – 12/2009 **Student trainee at the VNGAMMA** (Research and Development Center for Radiation Technology), Ho Chi Minh city,Vietnam
Assistant and doing Thesis "**Crafting MA, MMA into PIB by radiation**"

RESEARCH EXPERIENCE

- Polymer Technology:
  - Poly methacrylate (PMA), Poly methyl methacrylate (PMMA) synthesis.
  - Crafting monomer into polymer by radiation.
  - Radiation synthesis
- Computational Mechanics:
  - FEM using FEAP, Phase-field modeling
  - Electromechanical coupled problem, Ionic diffusion in Lithium battery.
- SPM techniques: Piezoresponse Force Microscopy, Electrochemistry Strain Microscopy

ADDITIONAL SKILLS

Languages:	Vietnamese (native speaker), English (good working knowledge), Elementary knowledge of German and Japanese
IT skills:	Computer languages: C++, Visual Basic, FORTRAN, Python and Pascal Operating system: MS Windows, openSUSE, Ubuntu Office programs: MS Word, MS Excel, MS PowerPoint, LaTeX Simulation programs: FEAP, ABAQUS, ANSYS and COMSOL

REFERENCES

Prof. Dr., -Ing. habil. Jörg Schröder
University of Duisburg – Essen
Fakultät für Ingenieurwissenschaften
Abteilung Bauwissenschaften
Institut für Mechanik
Raum V15 S06 D17
Universitätsstraße 15
45141 Essen, Germany
Phone: +49(0)201 183 2682
Email: j.schroeder@uni-due.de