



Certificate No. : OL201905130031BE1710

THIS IS TO CERTIFY THAT

HAODONG WU

HAS SUCCESSFULLY COMPLETED THE COURSE:

MULTIPHYSICS SIMULATION OF MEMS

CONTENTS OF THE COURSE:

Structural Mechanics: Linear elastic, geometric nonlinear, static and dynamic analysis.

Damping and Losses: Mechanical damping, dielectric loss, etc.

Electromechanics: The coupling of electrostatics and solid mechanics to compute the deformation of electrostatically actuated structures.

Piezoelectric Devices: Devices that deform structurally under an applied electric field.

Multiphysics in MEMS devices: piezoresistivity, joule heating, fluid-structure interaction, etc.

Guang Chen , Instructor

May 10, 2019



THIS IS TO CERTIFY THAT

Haodong Wu

HAS SUCCESSFULLY COMPLETED THE COURSE:

COMSOL MULTIPHYSICS ONLINE INTENSIVE TRAINING

CONTENTS OF THE COURSE:

Multiphysics modeling - the mutual coupling of multiple physics equations

Working with COMSOL® software expressions and materials

Meshing intricate geometry

Performing complex analyses

Linear and non-linear finite element methods

Selecting the optimal solver

Post-processing with result data and plots

A handwritten signature in black ink, likely belonging to the instructor, consisting of stylized characters.

Lei Cao , Instructor

April 12, 2019

实习证明

兹有电子科技大学武浩东同学（学号：2017200503031）于 2020 年 7 月 13 日至 2020 年 7 月 31 日在宁波科宁达日丰磁材有限公司实习。该同学在我司实习期间的实习职位是 工艺员，在职期间，工作积极，成绩突出。

实习鉴定：

该学生实习期间工作认真，踏实肯干，勤奋好学。在工作中遇到不懂的地方，能够主动向富有经验的前辈请教，善于思考，举一反三；虚心听取于别人提出的工作建议，在时间紧迫的情况下，加班加时完成任务；将在学校所学的专业课知识灵活应用到具体工作中，保质保量完成工作任务。

同时，该学生在实习时间严格遵守我公司的各项规章制度，服从公司安排，尊敬实习单位人员，同公司同事和睦相处，与其一起工作的员工皆对该学生在实习期间的表现予以肯定。

特此证明。

证明人：  (实习单位盖章)

人事部

2020 年 7 月 31 日

August 20, 2021

To whom it may concern,

This letter certifies that the student below is a visiting student at the School of Engineering, Westlake University.

First name(s): Haodong
Surname: Wu
Gender: Male
ID number: 130403199910210316
Passport number: EB0390789
Dispatching institution: University of Electronic Science and Technology of China & University of Glasgow
Hosting laboratory: Solid State Ionic Laboratory
Visiting period: 06/07/2021 to 20/08/2021

Please do not hesitate to contact me if additional information is required.

Sincerely,

Signature: 
School of Engineering
Westlake University
Email: liqiyang@westlake.edu.com



University
of Glasgow

Wu Haodong

This is to certify that the above named person has successfully completed a 10 credit summer programme at the University of Glasgow in

Inventions & Innovations of Scotland

03 August 2018

JSM

Professor John Marsh
Dean University of Glasgow, UESTC

M Imran

Professor Muhammad Imran
Vice Dean, Glasgow College, UESTC



Present Around The World Competition

This is to certify that

Haodong Wu

is the **EXCELLENT VOLUNTEER** of the
2018 Present Around The World Competition

China Region Final

on 2nd June 2018

Nigel Fine

Nick Winser

Nigel Fine
IET Chief Executive and Secretary

Nick Winser
IET President



结业证书

武浩东 同学：

参加电子科技大学第一届大学生网络媒介素养集训营专业技能培训，完成培训计划所规定的教学内容，成绩合格，予以结业。

特发此证，以资鼓励！

电子科技大学网络文化建设工作办公室
大学生网络文化工作室联盟
新声网络文化工作室
二〇一八年十月

奖 状

武浩东 同学

在二〇一八年电子科技大学“不忘初心跟党走，青春建功新时代”暑期社会实践中，表现优异，荣获

社会实践优秀个人

称号，特发此证，以资鼓励！





电子科技大学
格拉斯哥学院
Glasgow College, UESTC

荣誉证书

Certificate

武浩东 同学：
在 第五十届校运会 活动中表现积极，贡献突出，特此
嘉奖，以示鼓励。

Dear Haodong Wu :

Your excellent fulfillment and outstanding support in student activaties contributes to
this certificate awarded hereby as an encouragement.

电子科技大学格拉斯哥学院

分团委学生会

2017年10月

The student union, the Youth League Committee

Glasgow College, UESTC



电子科技大学
格拉斯哥学院
Glasgow College, UESTC

This is to certify that on

10th April, 2019



Served as

Volunteer

for the Fifth Overseas Education Consultation Fair that was organized
by the Study Abroad Support Center of Glasgow College, UESTC.

Glasgow College, UESTC

12th April, 2019

获奖证书

武浩东 同学：

在2017-2018学年期间，表现突出，德、智、体、美、劳全面发展，荣获

标兵学生奖学金

特发此状，以资鼓励。

