HANDOUT

S-----, WONG

Address:
19 Western Close
Sheffield S11 3BG, UK
Email: wong.s.q.@gmail.com
Telephone: +44 (0) 7333474445

University address:
Department of Mechanical Engineering
The University of Sheffield, Sheffield S1 3JD
Email: S.WONG@shef.ac.uk
Telephone: +44 (0) 114 2233444

RESEARCH

My future plans are to build on the foundations of my Masters to develop skill in various computational sciences, including fluid dynamics

EDUCATION

2002-06: **The University of Sheffield, *Masters in Mechanical Engineering***
My research project is titled 'Mechanism and Optimisation of 3D Shock Control Bumps'. The project is funded by BAE Systems and I have also been awarded an Oversea Research Scheme scholarship. It is CFD based and focuses on the investigations of the effects of shock control bumps on wave drag reduction in transonic flow.

2000-2002: **University of Bath**, ***Bachelor of Engineering in Mechanical Engineering with 1st Class Honours.***
The research from my undergraduate final year project, which is related to heat transfer, was published in a peer reviewed journal

2000: **Prime College (Malaysia), *Prime College Diploma*** *(equivalent to undergraduate 1st year)*

SKILLS & ACHIEVEMENTS

CFD-related, programming and IT skills

- Experienced in using and developing in-house CFD codes. I have successfully improved and modified an in-house RANS CFD code with appropriate boundary conditions for a transonic flow problem. In addition, I also acquired extensive practical background in commercial CFD codes including Fluent.
- Extensive technical background in grid generation software, including Gridgen and Gambit. I have employed Gridgen to generate grids on complex geometries including the Blended-Wing-Body and 3D bumps in a wind tunnel.
- Proficient in various programming languages including Fortran and C++ as indicated in my involvement in CFD code development.
- Strong technical experiences in parallel computing. This is demonstrated in my successful parallelisation of the aforementioned in-house CFD code with Message-Passing-Interface (MPI) implementation.
- Competent in post-processing and analysing fluid flow using commercial software, Tecplot, Ensight, Fieldview or the open source Paraview.
- Experienced in working and scripting in Unix or Linux environment.
- Competence in Microsoft Office software and Latex.

Presentation and communication skills

- Effective presentation skills have been developed during my Masters programme. I have met with my project sponsor, BAE Systems, on numerous occasions to present the latest research findings to them.
- I was involved in lab demonstrations for undergraduate students and offered some support on their final year projects. Therefore, I have some experience in teaching.

EMPLOYMENT HISTORY

Summer work 2001, Cranberry Bakery (Malaysia)

- I worked in the kitchen of the bakery shop, assisting in preparing various different kinds of products for the shop. In the relatively short period of time, I was able to pick up various techniques the chefs taught me fairly quickly.

Part-time job 1998-1999, Hor Poh Restaurant (Malaysia)

- In this job, I have executed the roles as both the cashier and waiter.
- I have also improved my interpersonal skills with my colleagues and customers, e.g. serving and taking orders from customers.

REFERENCES

Prof. N. xxx *(Project Supervisor)*
Department of Mechanical Engineering, The University of Sheffield, Sheffield S2 3JD, UK
Email: n.xxx@sheffield.ac.uk

Dr. D. A. dddd (*Supervisor for Undergraduate Final Year Project*)
Department of Mechanical Engineering, University of Bath, Bath BA2 7AY, UK
Email: d.dddd@bath.ac.uk