

Paul Kelly M.Sc. Experimental Physics

Address:
13 Treacy Meadows,
Green Rd,
Newbridge,
Co. Kildare,
Ireland.

Email: paul.kelly@community.isunet.edu

I have completed a research M.Sc in Experimental Physics at Maynooth University, Ireland and a M.Sc in space studies at the International Space University. My goal is to make advances in technology for the benefit of mankind and the environment, to form connections with people passionate about technology and science, and to share my knowledge and experience with people from different cultures and background.

Education

2013 – 2014 International Space University, Strasbourg, Alsace, France

M.Sc in Space Studies

(<http://www.isunet.edu/>)

2011 – 2013 National University of Ireland, Maynooth, Co.Kildare.

M.Sc. (Research) Experimental Physics

(<https://www.maynoothuniversity.ie/experimental-physics/our-research>)

2007 – 2011 National University of Ireland, Maynooth, Co.Kildare.

B.Sc. (Honours) Experimental Physics with Astrophysics

Result: 2.2 Honours

(<https://www.maynoothuniversity.ie/experimental-physics/our-research>)

Technical Skills

LABORATORY

Electronics

- Bench work in digital and analog electronics.
- Circuit board design & production using EAGLE, Qucs and PCB milling machine.
- Electronics for instrument control and data acquisition.
- Soldering and Crimping
- Electrical test systems (eg. Oscilloscopes, power supplies, multi-meters, etc.)

COMPUTER

Computer Applications

- Extensive experience with spreadsheet and graphical analysis packages,

- Microsoft Office suite (WORD, EXCEL, POWERPOINT),
- Data acquisition with LabVIEW,
- Instrumentation control with C/LabVIEW.
- Modeling optical systems in Computer Simulated Technology (CST)
- Image Reduction and Analysis Facility (IRAF)
- Computational modeling of physical/optical systems

Computer Programming

- C (also in LabWindows environment), C++, Java, LabView, Mathematica, MatLab, Simulink, Python and Java

Communication and Management Skills

LANGUAGE

- Native English Speaker
- Beginner level of French
- Beginner level of German, currently doing a German course (A2 level)

INSTRUCTIONAL

- Private tuition to Leaving Cert. Students,
- Lab Demonstrations to second level students during NUI, Maynooth Open days (November 2010)
- Lab demonstrations to third level students
- Tutored third level students

TEAMBUILDING

- Worked on team projects and assignments.
- Organized team meetings.
- At team meetings I have taken on the roles such as
 - Chair
 - Organizer
 - Clerk (recording the minutes)
 - Time keeper

Publications & Thesis

Kelly, Paul (2014) *Analysis of Quasi-Optical Components for Far-Infrared Astronomy*. Masters thesis, National University of Ireland Maynooth, Ireland.

Kelly, Paul, et al (2014) *STEP M: Space To Effectively Prepare For Migration*. Team Project Report, International Space University, France.