Christopher Bert

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U.S Citizen, DOD Secret Clearance

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https://www.linkedin.com/in/chris-bert-space-engineer

Objective

To build bridges between science and engineering in the space sector, to design new architectures and technologies, and to create a bright future for spaceflight

Education

University of Michigan, Ann Arbor MI

Sept '16 - Present (1st semester)

Master of Engineering: Space Engineering (M.Eng.)

GPA: 1st semester, no grades yet

University of Massachusetts, Amherst MA

Sept '12 – May '16 (graduated)

2 Bachelors of Science: Physics (B.S.), Astronomy (B.S.)

Minor of Music: Saxophone Performance

GPA: 3.570 (4.0 scale)

Honors: Commonwealth Honors College

Future Terms: Space Systems Design & Management, Space Physics, Astrodynamics, Electric Propulsion

Current Term: Spacecraft Tech, Space Policy and Management, Rocket Propulsion, CubeSat Research

Engineering: Heat Transfer, Fluid Mechanics, Thermodynamics

Physics: Computational Physics, Electrodynamics, Mechanics (classical, quantum, statistical)

Mathematics: Multivariable Calculus, Ordinary Differential Equations, Linear Algebra

Skills

Computer: STK, MATLAB, IDL, Microsoft Office Suite

Design and evaluation of space missions, modelling the space environment

Lab experience including vacuum, laser, biohazard, and radioactive environments

Experience

MITRE Corporation – Engineering Intern, Defense Radar Models **DOD Secret**

Summer '15 & Jan '16, Bedford, MA

Adaptation of a proposed analytical, probabilistic model into useable MATLAB functions for more efficient characterization of phased radar arrays to asses fulfillment of missile defense and space situational awareness requirements

University of Michigan – Research Intern, Solar Wind Interactions

Summer '14, Ann Arbor, MI

Computational analysis of plasma data from Mercury's exosphere for evidence of gaseous metal replenishment and magnetic reconnection - NASA MESSENGER

University of Idaho – Research Intern, Magnetic Nanoparticle Characterization

Summer '13, Moscow, ID

Nanoparticle fabrication and testing for the remediation of spent nuclear fuel; assisted with vacuum systems and the machining of iron sputtering targets

Leadership

Eagle Scout Award

Nov '09

Recognition of troop leadership and community service, including the planning of an enduring service project and the guidance of volunteers in its execution

Jun '12 **John Philip Sousa National Music Award**

Community

Music: wind band and vocal performance ensembles, support of local schools

Organizations: Society of Physics Students; Phi Mu Alpha Sinfonia