

# Achilles M. Heal

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Professional Objective Seeking an internship in the field of physics that will provide a challenging opportunity for growth.

## Qualifications

- Active in Solid State and Nuclear Physics research groups.
- 3 years experience as TA and RA.
- Proven ability to maintain a 3.99 GPA while working to support a family.
- 2 years programming and advanced laboratory equipment experience.
- Fluent in Spanish, written and spoken.
- Expert communication and social skills in team environment.

## Education

**B.S. PHYSICS** (April 2010) - Brigham Young University  
**Mathematics Minor**

- 3.99 GPA
- Physics GRE: 895 (87%)
- Member of Phi Kappa Phi

### Publications/Presentations:

- "Optical properties of InGaAs quantum dots and chains induced by annealing on GaAs(001)," H. Yang, D. Kim, A.M. Heal, J.S. Colton, J. Appl. Physics, in preparation.
- "Nuclear Effects on Electron Spin Resonance in Gallium Arsenide," A. Heal, J.S. Colton, B. Heaton, M. Johnson, D. Jenson, S. Brown, Abstract S1.126, American Physical Society March Meeting, Pittsburgh, PA (Mar 2010).
- "Optically-detected magnetic resonance studies of n-GaAs," J.S. Colton, B. Heaton, M. Johnson, D. Jenson, A. Heal, S. Brown, Abstract Y22.7, American Physical Society March Meeting, Pittsburgh, PA (Mar 2010).

### Awards/Scholarships:

- Prestigious AFCEA Intelligence Scholarship (Armed Forces Communications and Electronics Association) – only 2 recipients nationwide
- Undergraduate Recognition in Mathematics (2008, by invitation)
- Edwin S. Hinckley Scholarship

## Professional experience

Polly, James, Provo, Utah (801) 444-4444

**Research Assistant – Nuclear Physics:** 2010 – 2011

Project: Matlab program to detect and analyze dual-pulse events from pulse digitizer.

Fisher, Maria, Provo, Utah (801) 666-5555

**Research Assistant – Solid State Physics:** 2009 – 2011

Projects: Optically detected electron spin resonance; quantum dot photoluminescence; time-resolved single photon counting; ultrafast pulsed laser alignment and manipulation; modification of a closed-cycle cryostat and microwave resonant cavity.

Forward Thinking, Inc., Springville, Utah (801) 311-3333

**Private Physics Tutor:** 2008

