

Tobey B. Carman

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EDUCATION

MSE
Aug 2012

Software Engineering, University of Alaska Fairbanks

- ▶ Modified a terrestrial ecosystem software model to increase resolution with respect to growing season and vegetation type (C++ and Java)
- ▶ Created visualizations and output processing routines using Python, NumPy and Matplotlib

BA
May 2003

Colorado College

- ▶ Major: Geology; Major G.P.A.: 3.68

EXPERIENCE

Research Assistant
Sept 2011 – present

Spatial Ecology Lab, Institute of Arctic Biology

- ▶ Working with researchers to develop, operate and maintain various ecologic software models (see AIEM project at www.snap.uaf.edu/)
- ▶ Software: Linux and GCC tool chain; Python, NumPy, Matplotlib, VirtualBox, MinGw, LaTeX, Git

Teaching Assistant
Sept 2010 – May 2011

University of Alaska Fairbanks, Department of Computer Science

- ▶ Conducted labs, graded homework for Introduction to Computer Science

Application Developer
Aug 2010 – Sept 2010

TM McCoy & Co.

- ▶ Developed VB.NET application to display rig-data in geologist's office

Web Design
Jan 2009 – Aug 2010

TBC Designs

- ▶ Graphic design and development for several small business store-fronts

Founder and Owner
Aug 2006 – Aug 2008

Climbing Skins Direct

- ▶ Researched and implemented new manufacturing methods
- ▶ Designed and built semi-automated manufacturing equipment
- ▶ Sourced production materials
- ▶ Worked with product development, testing, sales and marketing

Mudlogger
Nov 2005 – Sept 2008

TM McCoy & Co.

- ▶ Collected, analyzed, and monitored rock samples and mud gas on active drill rigs; maintained and serviced gas detection equipment
- ▶ Created strip logs, worked with wireline loggers, interpreted geology, and consulted with company representatives and drilling operators

PRESENTATIONS

Carman, T., E. Euskirchen, *Modifications to a Dynamic Vegetation Model: Simulating Leaf Phenology by Plant Functional Type*, Alaska Cooperative Fish and Wildlife Research Unit (AKCFWRU) Annual Review, Fairbanks, AK, March 2012 (Poster).

PUBLICATIONS

Wright, P., Bergin, M., Dibb, J., Lefer, B., Domine, F., Carman, T., Carmagnola, C., Dumont, M., Courville, Z., Schaaf, C., & Wang, Z. (2014). Comparing MODIS daily snow albedo to spectral albedo field measurements in Central Greenland. *Remote Sensing of Environment*, 140, 118-129.