

Justin M. Frye

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Education

Carnegie Mellon University (CMU), Pittsburgh, PA

MS in Electrical and Computer Engineering (ECE)

2015-2016

BS in ECE, Additional Major: Computer Science

2011-2015

Work Experience

Applied Predictive Technologies (APT), Arlington, VA

Summer 2015

Software Engineering Intern, Architecture Team

- *Exception tagging* - Users classify exceptions, building a knowledge base of encountered issues, C#
- *Client services dashboard* - Business teams view/manage jobs their clients are running, C#

Microsoft Corporation, Redmond, WA

Summer 2014

Software Development Intern, Azure Storage

- *Disk performance monitor* - Users monitor hard-disk characteristics contributing to lifespan, C++

National Instruments, Austin, TX

Summer 2013

Software Engineering Intern, Radio Frequency (RF) Driver Group

- *Signal path identifier* - Users request an ID unique to the device's current hardware state, allowing verification of measurement configurations, C++, LabVIEW

Projects

(De)BuggyBoard, CMU, Embedded Systems Design Capstone

Spring 2015

- Software-enabled proto-board with nodal voltage measuring and auto-wiring

Street Pong, CMU, Build 18

Spring 2015

- Pong for people waiting on opposite sides of the crosswalk, using pcDuino

Seat Planning Optimizer (SPO), APT, Hack & Learn 7

Summer 2015

- Office seating arrangement planning tool

Teaching

Co-Instructor, Principles of Computing (15-110), CMU

Fall 2015

- Present lectures to approximately 300 students
- Create course assignments, labs, and grading rubrics in collaboration with 28 CA's and two instructors

Course Assistant, Fundamentals of Programming and Computer Science (15-112), CMU

F12, S13, F13, S15

- Presented introductory Python programming material in recitations of up to 30 students
- Coordinated with a team of over 40 CA's to teach approximately 375 students

Research

M.H. Amini, Justin Frye, Marija D. Ilic, O. Karabasoglu, "Smart Residential Energy Scheduling Utilizing Two Stage Mixed Integer Linear Programming," North American Power Symposium (NAPS) 2015.

Activities

Virtual Peer Advisor, College of Engineering

Summer 2012-2014

Mission Team Volunteer, Trinidad, Italy, Montana, Washington, D.C.

Summer 2006-2009

Honors

Dean's List, College of Engineering, CMU

F11, S12, F12, S13, F13, F14, S15

Eta Kappa Nu (HKN), Sigma Chapter, CMU

Member since 2013