# Peter Goldsborough

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## WORK EXPERIENCE

• Institute of Networked and Embedded Systems, Klagenfurt University, Austria

07/2014

Summer Intern

- Ported Non-Intrusive-Appliance-Monitoring (NIALM) algorithms from MATLAB to Python, C++ and SQL.
- O Visualized real-time appliance energy data in a Heroku cloud app using Python, Flask, PostgreSQL, HTML, CSS and Javascript; still live at nilm.herokuapp.com.
- Institute of Networked and Embedded Systems, Klagenfurt University, Austria

10/2014 — Present

- Research Intern
  - o Applying machine-learning and data-science techniques to make NIALM algorithms unsupervised.
  - Invented custom  $O(N \log N)$  clustering algorithm to replace existing  $O(N^2)$  solution.
  - Wrote 8363 lines of C++ code so far (working 5-10 hours/week)
- Google, London, United Kingdom

08/2016 - 11/2016

Software Engineering Intern

- Will be working on visualization software for Google's advertisement technologies.
- Bloomberg, London, United Kingdom

11/2016 - 04/2017

Software Engineering Intern

• Currently deciding on project.

#### **SKILLS**

- Very Good: C++, Python, Java
- Good: Ot, LaTeX1, HTML, CSS/SASS, SQL
- Intermediate: Arduino, AVR C, Git, Assembly
- Prior Experience: JavaScript, Flask, Heroku, VHDL
- (Operating) Systems: OS X, Linux, Windows, Arduino, ATMEL  $\mu$ -controllers

# **PROJECTS**

- Various projects found at github.com/goldsborough; snippets and scripts at gist.github.com/goldsborough
- Personal blog & website, old at the codeinn. blogspot.com, new at goldsborough.me.
- In-progress open-source C++ & Qt-based music synthesizer Anthem (26,575 lines of code so far) alongside 120page high-school diploma thesis on the math, digital signal processing and engineering behind it.
- Four-part freelance tutorial project Building a Text Editor with PyQt published on Binpress, currently with more than 60 stars on GitHub. Mentioned in PythonWeekly (issue 155) and PyCoder's Weekly (issues 131 and 132) newsletters.

## **EDUCATION**

• BG | BRG St. Martin High School, Villach, Austria

09/2011 - 06/2015

- Graduated as valedictorian with straight A's across all subjects and my thesis.
- School president 2013/2014; long-time involvement in student representation.
- Technical University of Munich (TUM), Germany

10/2015 — Present

B.Sc. in Computer Science

- $\circ$  Admitted with a score of 100/100.
- Member of TUM Investment Club, working on Algorithmic Trading.

<sup>&</sup>lt;sup>1</sup>See CV. Beware: recursion.