

Peter Goldsborough

peter@goldsborough.me • [linkedin.com/in/petergoldsborough](https://www.linkedin.com/in/petergoldsborough) • thecodeinn.blogspot.com

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.
 - 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
 - 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: Qt, \LaTeX ¹, HTML, CSS/SASS, SQL
- Intermediate: Arduino, AVR C, Git, Assembly
- Prior Experience: JavaScript, Flask, Heroku, VHDL
- (Operating) Systems: **OS X**, **Linux**, Windows, Arduino, ATMEL μ -controllers

PROJECTS

- Various projects found at github.com/goldsborough; snippets and scripts at gist.github.com/goldsborough
- Personal blog & website, old at thecodeinn.blogspot.com, new at goldsborough.me.
- In-progress open-source C++ & Qt-based music synthesizer *Anthem* (26,575 lines of code so far) alongside 120-page 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](https://github.com). 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
 - Admitted with a score of 100/100.
 - Member of TUM Investment Club, working on Algorithmic Trading.

¹See CV. Beware: recursion.