

PAUL MAXIMILIAN YATES

6158 WILLOW LN., BOULDER, CO., 80301 • +1-770-241-8582 • PAUL@YATES-ENGINEERING.COM

OBJECTIVE

Consulting, Freelance, and Part Time Opportunities in Computer Engineering

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, USA

MS in Electrical and Computer Engineering

August 2017 – March 2018

- VLSI System and Digital Design, Computer Systems and Software

BS in Computer Engineering

August 2013 – March 2017

- Highest Honors, German Minor, International Plan with Language Proficiency

EXPERIENCE

Yates Engineering, Boulder, Colorado, USA

March 2024 – Present

Owner

Rapid prototyping of ESP32-based WiFi+Bluetooth smart force sensor

Development of NXP Arm Cortex M0+-based solar rechargeable barometer+accelerometer

Bitflip Engineering, Longmont, Colorado, USA

September 2020 – March 2024

Senior Engineer

C++ software development in Linux-based automotive telematics unit on NXP i.MX 7 platform

Embedded C firmware+bootloader on FreeRTOS based GPS+LTE tracking device on STM32 platform

Embedded Qualcomm CatM modem integration

PCB design with Altium workflow

M2MD Technologies, Atlanta, Georgia, USA

August 2018 – August 2020

Software Engineer, IoT Devices Lead

Lead C developer IoT embedded Linux device utilizing MQTT with an AWS backend

C development in FreeRTOS, ThreadX, and Zephyr based embedded device prototypes

PCB design and testing with KiCad workflow

Müller-BBM, Stuttgart/Munich, Germany

October 2015 – March 2016

Data Analyst and Process Engineer

Scripting in Perl, Excel VBA, and NI Diadem for vibro-acoustic analysis

Georgia Institute of Technology, Atlanta, Georgia, USA

August 2017 – January 2018

Graduate Teaching Assistantship – VLSI and Advanced Digital Design

Student teacher and grader with proficiency in Cadence Virtuoso design software

SKILLS

Tools and Software	GNU/Linux Zephyr RTOS	ThreadX RTOS Git + Gitlab CI	FreeRTOS KiCad and Altium	Soldering/PCB Rework 3D Printing
Code	C/C++ Golang	Python Perl	Rust ARM/x86 Assembly	VHDL SQL
Languages	English (Primary)		German (Fluent/ACTFL Advanced Mid)	
Citizenship	USA and Germany			