

Severin Ibarluzea

electronics · software · rapid prototyping

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Young engineer with extensive background looking for challenging problems in electronics, manufacturing and software engineering with emphasis on fast-paced development and collaboration.

skills

Embedded System Design RPI Embedded Control, embedded dev contracting, amp design/feedback analysis, pcb layout, firmware

Web Development many OS web projects, Electron app dev, full stack web, TripAdvisor frontend/backend dev, SPA apps, design

Machine Learning/Data Analytics RPI Machine Learning, RPI Data Mining, TripAdvisor retention analysis, NN + SVM implementations

Software Development RPI Data Structures, desktop app dev, imperative/functional languages, c/c++ optimization

Manufacturing RPI Advanced Manufacturing Processes, STEPTools digital manuf. dev, tolerance analysis, auto monitoring

experience

Graba Engineering *Cofounder, Principle Engineer*

project lead | design review | CAD/EDA | web/app dev | client communication

Actasys *Pre-Amplifier and Controls Design/Fabrication Contractor*

DMA arbitrary wave gen | embedded controls | power system | noise reduction

RPI School of Science *Web/Mobile Application Developer*

MEAN SPA app | Flutter mobile app | REST API design/interface | open source

Green Heron Engineering *Developer*

interface embedded motor controller | web/hardware bridge | desktop app dev

Smart Engineering Lighting Research Center *UG Researcher*

led/spectrum analysis | embedded bluetooth device | low-power device dev

Nebulous Labs *Desktop Application Developer*

distributed cryptocurrency | cross-platform packaging | app deployment

The Inventor's Guild *Senior Developer*

consulting | video editing app dev | embedded linux (SoM) | mobile dev

Harris RF Division *Intern Software/Test Developer*

automated radio testing | large codebase dev | signal/error analysis

Rensselaer Center for Open Source *Lead Coordinator*

150+ software devs | \$2M+ open source initiative | project management

TripAdvisor *Intern Software Developer*

1st place intern hackathon | data analytics | web dev | backend dev

STEPTools *Intern Software Developer*

cad tool dev | 3d rendering | server and app dev

tech

Languages C | Python 2/3 | C++ | Javascript | Java | Dart | Go | Haskell | SQL | Lua | C# | css/less/scss

Embedded Platforms ATmega/AVR | Cypress PSoC 4/5 | Beaglebone | Raspberry Pi | 8051

Web Platforms Bootstrap | Polymer | MongoDB | AngularJS | React | Express | Yeoman | NodeJS | Apache Tomcat | Django | Flask | ECMAScript 6 | Grunt | Gulp | AWS | DigitalOcean | PostgreSQL | MySQL

Tooling Ubuntu/Linux | Windows | Mac | KiCAD | Eagle | Upverter | Autodesk Inventor | Onshape | Solidworks | Atom io | MS Visual Studio

college

Rensselaer Polytechnic Institute

BA Computer and Systems Engineering [2017]

GPA 3.72

College Awards Who's Who Award, #1 MS Code Comp, Best UI HackBU, #1 Target Business Comp, Intel Cornell Cup Finalist

Extracurricular Embedded Hardware Club Project Manager, Rensselaer Center for Open Source Mentor/Coordinator, Electric Car Club, Mechanical Team, Resident Student Association Web Master, Winter Carnival Web Master