

# 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*

team lead | led/spectrum analysis | embedded bluetooth device | low-power

**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

**RPI Manufacturing Lab** *Project Leader*

computer vision gantry position detection | embedded sensor 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