

# Robert Konrad Claus

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## Education

**University of California Berkeley**, Berkeley, CA 2010-2014

B.S. Chemical Engineering

Minor Electrical Engineering and Computer Science

GPA 3.7

**El Toro High School**, Lake Forest, CA 2006-2010

Valedictorian

International Baccalaureate

GPA 4.8

## Work Experience

**Integration Engineer – Epic Systems, Madison WI** 2014 - Present

### Integration Developer

- o Designed and developed the full software stack for a new product from prototype to community adoption.
  - Used MSSQL, C# ASP.NET MVC with Entity Framework, Razor View Engine, Javascript, jQuery, HTML and CSS.
- o Programmed enhancements and fixes for existing software in multiple languages and frameworks.
  - Primarily used Intersystems Caché and C# in the Epic Bridges and Interconnect products.
- o Analyzed ISO certified development and change control processes to implement improvements.

### Finland Technical Lead, New Zealand Integration Lead and Singapore Standards Lead

- o Analyzed technical specifications for locale specific HL7 V2 and XML standards, healthcare workflows, and customer requirements.
- o Estimated and priced new development projects.
- o Coordinated cross-application fixed-price estimates for international customers.
- o Defined and delegated specialized tasks to experts and managed progress to meet targets.

### Integration Application Coordinator and Technical Support

- o Led and organized projects with customer teams to install and optimize new software features.
- o Solved technical issues when they exceeded the expertise of customer teams.
- o Managed internal resources to quickly find solutions for customers.

**Lam Research Intern - Lam Research, CA** 2013

- o Qualified replacement parts for use in industrial plasma etching tools by testing performance.
- o Collected and presented data efficiently, safely replaced electrical components in an industrial workplace, and ran industrial tools including plasma etchers and measurement tools.

**Undergraduate Researcher - Maboudian Research Lab at UC Berkeley** 2012 - 2013

- o Co-published research on the limitations of biomimetic adhesives on rough surfaces.
- o Implemented and improved experimental procedures.

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## Personal Projects

### ***Ionic Application Development***

2016

- o Developed a personal cross-platform task management app in the Ionic framework using a Mongo database, Node.js server, and Angular JS.

### ***Projection Mapping Board Game***

2015

- o Developed an interactive board game using projection mapping in C#.
- o Used OpenCV image processing to detect and track key objects and project live images onto them.

### ***Virtual Reality Hackathon (24 Hour Event)***

2014

- o Developed a virtual reality game including limb tracking, finger tracking, and naturally walking.
- o Combined Oculus Rift VR Goggles, Microsoft Kinect body tracking, and Leap Motion hand tracking within Unity.

### ***Arduino Development***

2012 - Present

- o Created a number of projects combining Arduino with other platforms including a custom built quadrotor, numerous different IoT sensors, a browser driven RC boat incorporating Wifi modules, completely custom laser cutter hardware and software written in Matlab, and other projects.

### ***Decal Instructor (Doctor Who, Firefly, Battlestar Galactica, Webcomics)***

2012 - 2014

- o Independently taught four courses for university credit on pop culture subjects.
- o Organized class activities and lesson plans to cover two hours every week with lectures and discussion.

### ***Solar Cup boat building team***

2006-2010

- o President of a team that build a solar powered electric boat to race in annual competitions.
- o Organized ordering materials, technical design, troubleshooting and improvement processes.
- o Managed and motivated a team of volunteer students working under time restrictions.

## Skills

**Programming Languages:** C#, HTML, Javascript, CSS, MUMPS/Caché, SQL (MSSQL, MySQL), Visual Basic, ASP.NET, Entity Framework, Node.js, AngularJS, Ionic Framework, PHP, LabView, and Matlab

**Development Skills:** Relational database design and implementation, AB Testing, Unit Testing, Subversion, GIT

**Office Skills:** Microsoft Office: Excel programming, Word, and PowerPoint. Fluent in German and English. College level Spanish.