

Bryan Nolan Correll

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Software Engineer : National Instruments
B.S. Computer Engineering

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Objective

To combine my backgrounds in front-end application development and embedded software engineering to develop unifying solutions which are both elegant and efficient.

Skills and Proficiencies

- C++/C, C#, LabVIEW, PHP, HTML, CSS, Javascript/AJAX, Python, SEO.
- CAN protocols including J1939, CANOpen, J1587, J1708, and application layer development.

Experiences

- National Instruments, Austin, TX (Software Engineer Full-Time – Driver Services)** 07/13 to present
- The Driver Services team maintains platform and driver abstraction libraries to provide unifying interfaces for Linux, Windows, Mac, Pharlap, and cRIO RTOS.
 - Develop and maintain application GUIs using LabVIEW and C/C++ DLL entry points.
 - As an intern, I added support for several OS synchronization objects to our platform abstraction library and overhauled the auto-test suite.
- Anheuser-Busch InBev, Saint Louis Brewery (Process Support Engineer – Intern)** 05/11 to 08/11
- Maintained 500 office and production PCs/Thin Clients.
 - Monitored and serviced production servers and network infrastructure.
 - Provided technical support to hundreds of employees.
- Simma Software, Inc., Terre Haute, IN (Embedded Software Engineer – Intern)** 01/11 to 01/12
- Researched, developed, and delivered a CANOpen protocol stack in C.
 - Developed CAN based application layers in C to handle messages across network adapters in accordance with SAE J1939, J1587, and J1708 protocols.
- Rose-Hulman Ventures, Terre Haute, IN (Software Engineer – Intern)** 09/09 to 12/10
- Developed C# applications to provide real-time analysis of CAN/J1939 network data.
 - Leveraged PHP/JavaScript to develop multiple public-facing web apps for my school.
- Rawclix.com, LLC - Facebook Ad Agency (CTO / Co-Founder)** 05/08 to 07/09
- Used PHP/MySQL to develop the ad-serving engine on load-balanced server rack.
 - Harnessed PayPal and Facebook's PHP APIs to provide a user-friendly client-side control panel wholly integrated into a Facebook application page.
- Crimsonian Designs, LLC (Sole Proprietor)** 03/04 to present
- Developed, maintained, and optimized numerous Web 2.0 applications.

Education and Leadership Experience

- Rose-Hulman Institute of Technology, Terre Haute, IN** 09/09 to 05/13
- BS in Computer Engineering / Math Minor
 - Awarded Student Leader of the Quarter while President of Rock Climbing Club for automating paperless weekly waiver collection and travel packet submission.
 - Traveled to Kenya and visited local schools to promote educations in STEM. Demonstrated how micro-computers (e.g. Raspberry Pi) could be leveraged as cost-effective, low-power workstations for their students.
- Boy Scouts of America – Eagle Scout Rank Award** Awarded 5/24/2005
- Designed and led my troop in constructing two custom pieces of K9 training equipment for New Jersey Task Force One Urban Search and Rescue.