

CHARLY BERTRAN

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West 21st Street
New York, NY 10011
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EDUCATION

Polytechnic University of Catalonia (UPC), Barcelona - Spain
Bachelor of Science, Mechanical Engineering

May 2010

RELATED COURSES

Material Science
Elasticity and Strength of Materials
Machine Design
Machine Components Engineering
Industrial Maintenance

SKILLS

3D Modeling
FEA
CAD / CAM
CNC programming/machining
Manual lathe/mill machining
GTAW (TIG welding)

SOFTWARE

SolidWorks
Pro/Engineer
AutoCAD
Catia
MastercamX
Microsoft Office

PROFESSIONAL EXPERIENCE

Engineers Without Borders, New York, NY
Usalama Water Project – www.usalama.ewbny.org
Technical Team Engineer

November 2012 - Present

- Collaborated in the design and implementation of a potable water distribution system to provide drinking water to a population of 5000+ people in rural Kenya.
- Conducted research and data analysis for appropriate technology implementation to the needs of the project.
- Designed a 40 m³ RC/masonry water storage tank: performed structural calculations, selected appropriate material, created original construction methodology, oversaw development of technical drawings.
- Analyzed GPS surveying data to create topographical profiles for the terrain in CAD.
- Advised team in use and feasibility of alternative technologies.
- Independently wrote project reports to sync with the rest of the team's reports.
- Assisted in the development of a field book to guide other engineers.
- Organized fundraising events: developed relationships with sponsors (including networking and management of funds and donations).

Sid's Bikes, New York, NY
Bicycle Mechanic

March 2012 – Present

- Repaired and assembled high-end mountain and race bicycles.
- Provided consistent product flow during peak sales periods.
- Reduced build-up of incoming stock.
- Performed daily administrative duties

Serotta Competition Bicycles, Saratoga Springs, NY
Mechanical Engineering Intern

September 2010-December 2011

- Designed, prototyped and manufactured customized tooling and bicycle parts for a high-end road bicycle manufacturer.
- Implemented advanced multi-operation programs for CNC-controlled machine tools.
- Maintained and repaired machine shop machinery and equipment.
- Analyzed manufacturing processes for optimization, efficiency and cost reduction.
- Provided production support, troubleshooting, and efficient resolution to production issues.
- Trained production staff for new production additions.