

CHARLY BERTRAN

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EDUCATION

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

May 2010

RELATED COURSES

Graphic Expression & CAD
Mechanics and Mechanisms Theory
Thermal & Fluid Mechanics Eng.
Mechanical Technology
Machine Design
Project Workshop
Drives & Transmission in Machines
Solar & Wind Energy Machine
Components Engineering
Manufacture of Parts by Machining

SKILLS

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

SOFTWARE

SolidWorks
Pro/Engineer
AutoCAD
Catia
MastercamX

PROFESSIONAL EXPERIENCE

Fat Tire Farm, Portland, OR

June 2014 - Present

Bicycle Mechanic

- Repaired high-end full suspension bicycles, specializing in the repair and maintenance of suspensions, hydraulic brakes, linkage mechanisms, bearings and carbon fiber parts and structures
- Full service, overhaul and repair of dampening mechanisms as well as air and coil spring assemblies
- Communicated with manufacturers for trouble shooting
- Performed daily administrative duties and customer service

Engineers Without Borders, New York, NY

November 2012 - Present

Usalama Water Project – www.usalama.ewbny.org

Technical Team Engineer

- 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
- Designed and constructed a 40 m³ RC/masonry water storage tank
- Managed and supervised on-site implementation of the project
- Conducted research for technology appropriate to the needs of the project
- Analyzed and collected 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
- Organized fundraising events: developed relationships with sponsors (including networking and management of funds and donations)

Serotta Competition Bicycles, Saratoga Springs, NY

September 2010 – December 2011

Mechanical Engineering Intern

- 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 support, troubleshooting, and efficient resolution to production issues
- Trained staff for new fabrication additions