

# CHARLY BERTRAN

www.cbgworks.rob-mcc.com  
charly.bertran@gmail.com

315 NE 66th Avenue  
Portland, OR 97213  
347 471-5374

---

## 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](http://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 m<sup>3</sup> 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