

Product Design Engineer at BURN Manufacturing

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Company: JobWebKenya

Location: Kenya

Category: other-general

Job Description

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BURN designs, manufactures, and distributes aspirational fuel-efficient cooking products that save lives and forests in the developing world. BURN has revolutionized the global cookstove sector by proving the business case for selling a high quality, locally manufactured and unsubsidized cookstoves. Since 2010, BURN has sold 1,000,000+ high quality, locally manufactured and unsubsidized jikokoas (kerosene) stoves in East Africa. These stoves have helped 1,000,000+ beneficiaries save \$39 million in fuel expenditures and 1,000,000 tons of wood while reducing indoor air pollution by 65%. BURN currently sells ~10,000 stoves per month and intend to double sales by the end of 2015.

About The Role

Burn is looking for a **Product Design Engineer** for its new electric cooking products. This is an exciting opportunity to be a part of the development of a new electric cooking product for Africa. The ideal candidate will have a strong understanding of user-centered product design. They will use market and user research to inform their designs. Working closely with the electrical and software design teams will ensure the optimal design solution. Additionally, they will collaborate with the commercial team to identify business needs and incorporate them into the product requirements. As Product Design Engineers, they will need to have strong visual communication skills that are grounded in a solid understanding of manufacturing processes.

Duties and responsibilities:

Create and present visual concepts for new and innovative electric cooking products using a variety of visual communication methods such as sketches, digital illustrations, CAD, CAD renderings, and rapid prototypes.

Design and create low to high-fidelity prototypes using formed sheet metal, CNC milled, and 3D printed parts.

Create 2D technical drawings for communication with vendors.

Follow human-centered design practices when developing designs.

Ensure all designs are consistent with Burn's style and branding strategy.

Provide inputs and initiate research activities to resolve and support design decisions.

Research and develop manufacturing processes as needed to achieve product goals.

Contribute to the creation of related digital products to ensure consistent user experience across products.

Creating and maintaining requirement documents, reports, cost studies, part, and process specification documentation.

Communicating with the respective stakeholders such as hardware and software about the project and their task herein.

Prototyping using sheet metal forming, welding, general metal fabrication, 3d printing, and others

Testing concepts and prototypes in the lab and field

Skills and Experience:

BFA or BA in Design Engineering, Industrial Design, Product Design, or similar fields.

3 +year demonstrated work experience in relevant consumer product field designing products.

Proficient in Rhino, SolidWorks, Keyshot, and Adobe CC (Mostly Photoshop, Illustrator, and InDesign).

Proficient in core MS Office products.

Solid sketching and rapid visual communication skills.

A portfolio of current work. Candidates will be required to present work samples and or portfolio to demonstrate communication skills as well as their design skills.

Hand prototyping and model-making skills such as basic metalworking, sheet metal, wood, foam, 3D print finishing, and painting.

Experience in UX and UI design, Adobe XD or Figma

Graphic design for products.

Integration of electrical hardware into products.

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