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Subject: Silver Torch / Flashlight (pic heavy)  
Posted by [Tofty](#) on Sat, 03 Nov 2012 09:52:32 GMT  
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Hi everyone,

I've been having a lot of fun with Shapeways recently, trying to produce completely finished (as in requiring no further machining) 3D printed parts for various assemblies.

I've had some success in the past with a strong and flexible Plastic AAA Torch Host but I've just completed something a little more interesting:

My fully working 3D printed silver torch:

The tritium vials are 6x2mm.

The light specifications are:

an XM-L U2 mounted on a 16mm copper board,

shining through a Carclo 10003 20mm TIR lens,

driven by an updated 3.04A 8xACM7135 multi-mode driver set to low/medium/high with memory,

powered by an AW IMR 16340 high discharge cell,

controlled by a tail mounted micro-clicky switch and extra sprung silver switch cover.

I probably won't make nine hundred and ninety nine of them though.

Threads turned out very well, they are the same 20tpi pitch on the surefire P/C/Z series, about 1.3mm pitch.

All the silver parts were ordered as i single sprued part which can be seen here and the gold plated brass bezel and tail rings ordered from another 3D printers.

The evolution of the design of this light and the thought process behind it can be read in this forum thread. It's abit long but goes through some of the issues i came up against during this project.