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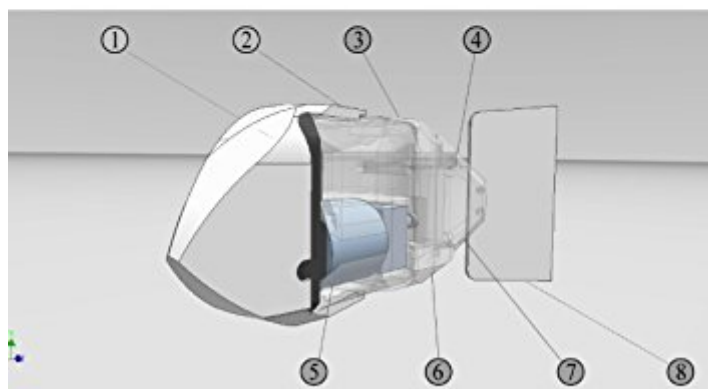
# Robotic Fish ISplash-II: Realizing Fast Carangiform Swimming To Outperform A Real Fish

## *Robotic Fish iSplash-II*

Realizing Fast Carangiform Swimming to Outperform a Real Fish

11.6BL/s (i.e. 3.7m/s)

By Richard James Clapham



[www.isplash-robotics.com](http://www.isplash-robotics.com)



## Synopsis

Robotic Fish iSplash-II Realizing Fast Carangiform Swimming to Outperform a Real Fish By Richard James Clapham Abstract. This book introduces a new robotic fish, iSplash-II, capable of outperforming real Carangiform fish in terms of average maximum velocity (measured in body lengths/ second) and endurance, the duration that top speed is maintained. A new fabrication technique and mechanical drive system were developed, effectively transmitting large forces at high frequencies to obtain high-speed propulsion. The lateral and thrust forces were optimized around the center of mass, generating accurate kinematic displacements and greatly increasing the magnitude of added mass. The prototype, with a length of 32cm has significantly increased the linear swimming speed of robotic fish, achieving consistent untethered stabilized swimming speeds of 11.6BL/s (i.e. 3.7m/s), with a frequency of 20Hz. Keywords: High speed robotic fish Â Carangiform swimming Â Full-Body length Â Swimming speed Â Maximum velocity.

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