

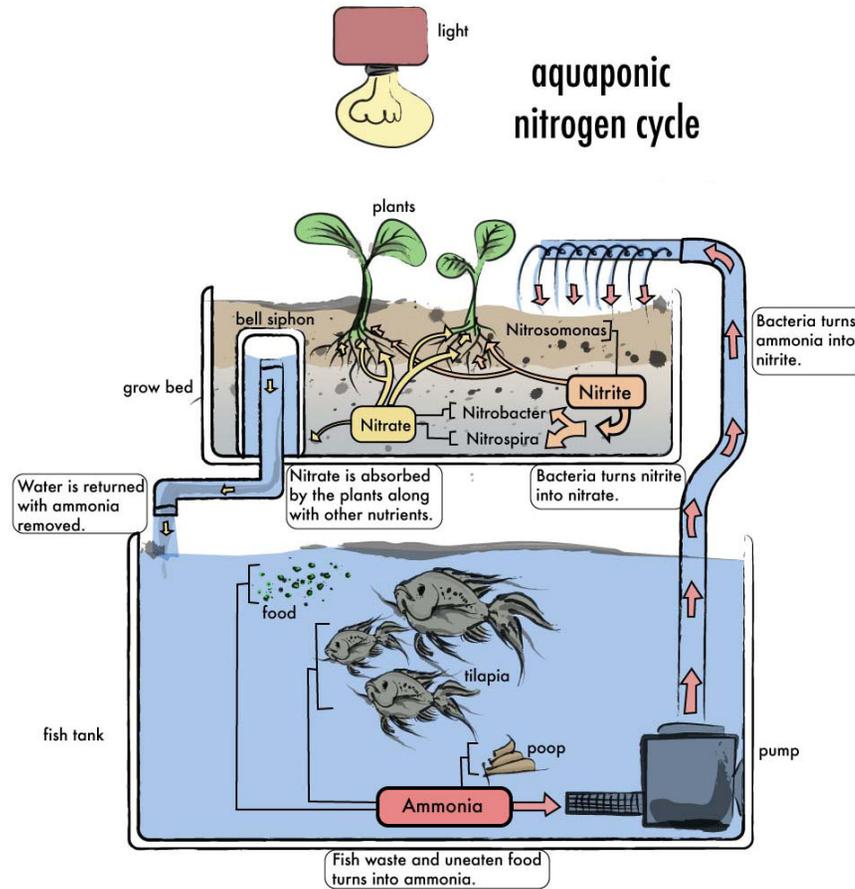
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# Urban Aquaponics

by

**Carlos R. Villamar, J.D., M.S.E.E., B.S.E.E.**  
crvillamar@villamars.com

# Overview of Aquaponics



\* From <http://middcore.middlebury.edu/files/2013/05/AquaponicNitrogenCycle.jpg>



# Aquaponics Components



# Overview of Black Soldier Fly (BSF) Composting

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# BSF Components



# Overview Video

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\* From [http://www.youtube.com/watch?v=BMb3p\\_FMMbU](http://www.youtube.com/watch?v=BMb3p_FMMbU)

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# Facebook Pictures

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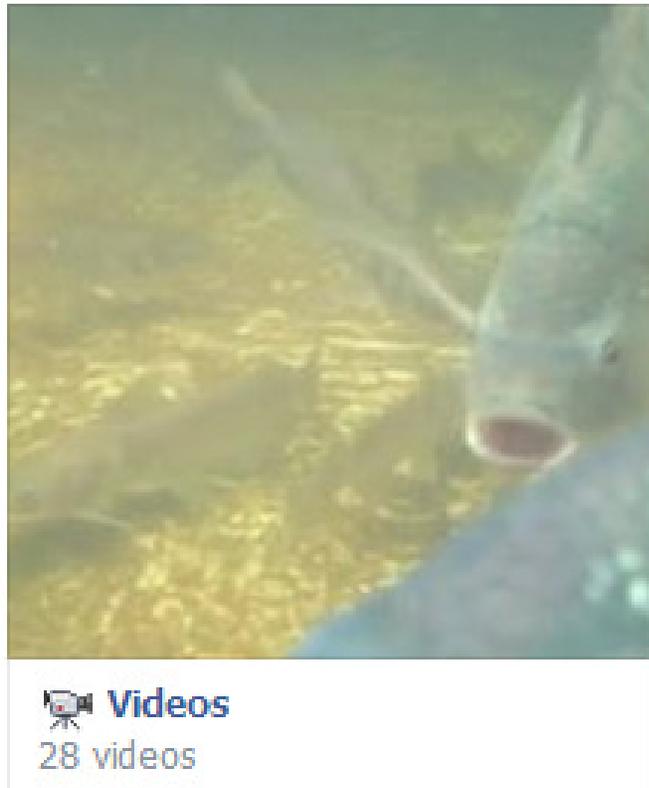
**Aquaponics**  
106 photos



\* From [https://www.facebook.com/IAMJackal/media\\_set?set=a.10151530908131832.1073741825.698581831&type=3](https://www.facebook.com/IAMJackal/media_set?set=a.10151530908131832.1073741825.698581831&type=3)

# Facebook Videos

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\* From [https://www.facebook.com/IAMJackal/media\\_set?set=vb.698581831&type=2](https://www.facebook.com/IAMJackal/media_set?set=vb.698581831&type=2)

# Forums

Aquaponics Aquaponics Forum Aquaponics Shop Magazines Shop Backyard Farming IBCofAquaponics

 **Backyard Aquaponics**  
A place to discuss aquaponics

Search in the Aquaponics Forum:

Logout [j4ck4l] View active topics 0 new messages Search Members User Control Panel

View unanswered posts | View active topics Last visit: Sep 23rd, '13, 14:51 It is currently Sep 23rd, '13, 17:29 View unread posts | View new posts | View your posts

Portal » Board Index » Aquaponic Discussions » Members Systems All times are UTC - 5 hours

**Jackal's System**  
Moderator: editors

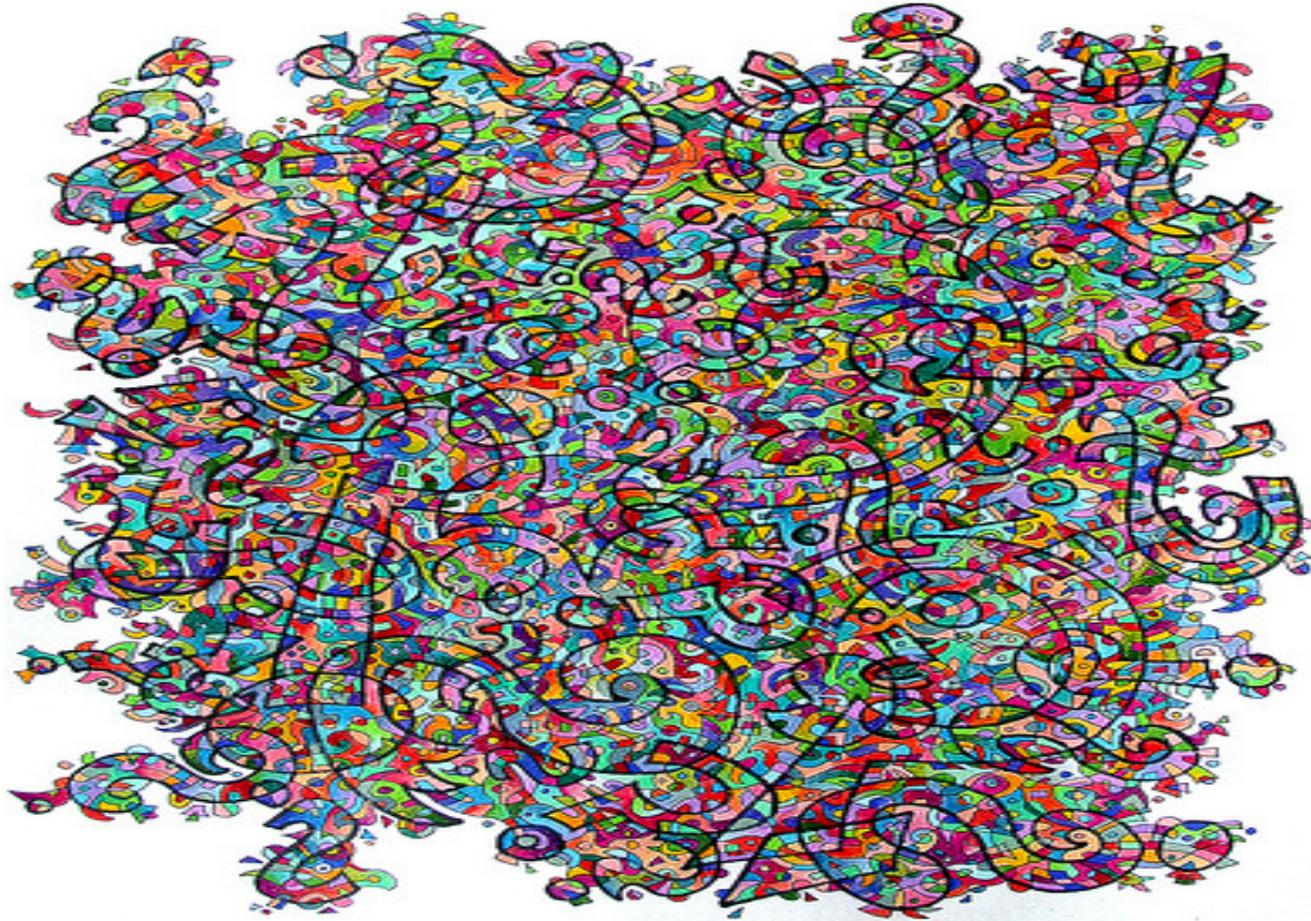
Page 1 of 4 [ 52 posts ]

Author	Message
j4ck4l	Post subject: Aquaponics Newbie <span style="float: right;">Posted: Feb 13th, '13, 13:06</span>
<p><input type="button" value="offline"/></p> <p>Newbie</p> <p></p> <p></p> <p>Joined: Feb 13th, '13, 12:43 Posts: 33 Location: NOVA Gender: ♂</p>	<p>Plan on using a 300 gallon, insulated, spa-n-a-box purchased used for \$50 as a fish pond.</p> <p></p>

\* From <http://www.backyardaquaponics.com/forum/viewtopic.php?f=18&t=16501>

# Questions?

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# The Villamar Firm PLLC

*Attorneys at Law*



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## Home

The Villamar Firm is a Professional Limited Liability Company (PLLC) law firm based in Virginia with easy access to the [United States Patent and Trademark Office](#). The Villamar Firm specializes in the practice of Intellectual Property Law, including [patents](#), [trademarks](#), [copyrights](#), [trade secrets](#) and [computer and internet law](#).

At The Villamar Firm we strive to provide the best possible work product, at a competitive price, and with superior client service.

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**The Villamar Firm**  
Attorneys at Law

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**Carlos R. Villamar, J.D., M.S.E.E., B.S.E.E.**

attorneys



Carlos R. Villamar is a founding partner of **The Villamar Firm**.\*

**Areas of Practice:** Patents, Trademarks, Copyrights, Licensing.

Mr. Villamar is a patent attorney with broad experience assisting clients with foreign and domestic patent application preparation and prosecution, opinion work, litigation, and IP counseling.

\*Mr. Villamar is licensed to practice US state law in Virginia and the District of Columbia.

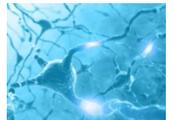


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Mr. Villamar's expertise covers a wide variety of technologies, including wired, wireless, optical, terrestrial broadcast and satellite communications, neural networks, fuzzy logic and artificial intelligence, encryption, digital signal processing, speech recognition and language understanding, sound and image processing, video processing, medical imaging, video games, on-line gaming, gaming engines, physics engines, 3D graphics, virtual worlds, Digital Rights Management, e-commerce, military technologies, radar, sonar, fighter aircraft, missiles, ground guidance, heads-up displays, computers and architectures, computer networks and security, semiconductors, device manufacturing, nanotechnology, oil and gas exploration, renewable energy, electrical, solar, thermal and wind power, automotive technologies, and electromechanical technologies.

Prior to founding **The Villamar Firm**, Carlos gained extensive experience in numerous aspects of intellectual property law as an attorney in large, national general practice and IP boutique law firms and as a patent examiner in the Speech Signal Processing Group of the [U.S. Patent Trademark Office](#).

As an electrical engineer, Mr. Villamar has over nine years of commercial experience, including production design and testing for the [Standard Missile](#) Program at the [General Dynamics Corporation](#) Missile Systems Group (purchased by [Raytheon](#)), high-speed digital logic and computer design for the [Advanced Tactical Fighter](#) Program at the [Hughes Aircraft Company](#) Radar Systems Group (purchased by Raytheon), and IR&D and design of high-speed digital signal processing and communications systems at the Hughes Aircraft Company Advanced Circuits Technology Center (purchased by Raytheon, spun off as TelASIC and then purchased by [MTI](#)).



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**Education:** J.D., The George Washington University Law School (1998); M.S.E.E., California State University, Long Beach, emphasis in Digital Signal Processing & Neural Networks, (1992); and B.S.E.E., California State Polytechnic University, Pomona, emphasis in Digital Signal Processing, (1987).

**Admitted:** Virginia, the District of Columbia, the United States Supreme Court, the Court of Appeals for the Fourth Circuit, the Court of Appeals for the Federal Circuit, the Virginia Supreme Court, and the District Court for the Eastern District of Virginia. Served on the Board of Directors of the Federal Circuit Bar Association.

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Dr. Barbara Villamar is Of Counsel to **The Villamar Firm**.\*

**Areas of Practice:** International Business Transactions, Corporate, International Trademark Law.\*\*

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\*\*Dr. Villamar's practice will be limited to Trademark Law while licensed in the District of Columbia.



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Dr. Villamar is licensed to practice law in [Germany](#) and the United States and specializes in international and domestic corporate and business issues and trademark law. She is also available to serve in a liaison capacity between German and U.S. counterparts. Before joining the firm, Dr. Villamar worked on both sides of the Atlantic advising and representing clients in corporate, regulatory and transactional matters. She has broad experience guiding clients through the evaluation, negotiation and closing process of commercial arrangements, specifically pertaining to Internet service providers. She has assisted in the formation and restructuring of corporations and joint ventures, execution of domestic and cross-border transactional agreements, and formulation of internal and external corporate policies.

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Dr. Barbara Villamar ist für **The Villamar Firm** als freie Mitarbeiterin tätig.\*

**Schwerpunkte:** Internationales Handels- und Gesellschaftsrecht, Internationales Markenrecht. Dr. Villamar ist in Deutschland und in den Vereinigten Staaten als Rechtsanwältin zugelassen und konzentriert sich in ihrer Tätigkeit auf nationales und internationales Handels - und Gesellschaftsrecht und Markenrecht. Darüberhinaus steht sie als Verbindungsperson zwischen deutschen und US-amerikanischen Partnern zur Verfügung. Dr. Villamar hat sowohl in Deutschland als auch in den USA Mandanten im Unternehmensrecht beraten und vertreten. Sie hat, u.a. im Bereich der Telekommunikation tätige, Klienten während des Evaluierungs - und Verhandlungsprozesses unterstützt, z.B. bei der Gründung und Umstrukturierung von Unternehmen und Joint Ventures, im Zusammenhang mit nationalen und internationalen Handelsverträgen und bei der Formulierung von internen und externen Unternehmenspraktiken.



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**Education/Ausbildung:**

[Johannes-Gutenberg-Universität](#), Mainz (1. State Bar Exam 1989).

[Landgericht Frankfurt am Main](#) (2. State Bar Exam 1992).

[The George Washington University Law School](#) (LL.M. 1994).

[The George Washington University Law School](#) (S.J.D. 2005).

**Bar Admissions/Zulassungen:**

[Landgericht Frankfurt am Main](#), Germany (1992) (presently dormant)

\*[District of Columbia Court of Appeals](#), Washington, D.C. (2002).

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