

David Tagatac, M.S.

Analytical Researcher - Programming Specialist - User Interface Developer

3991 Miramar Street, Suite F, La Jolla, CA 92037

Home: 858-558-4703 Mobile: 858-997-9232 dmt27@cornell.edu

PROFILE

Highly motivated scientific researcher with proven programming and networking abilities looking to transition into industry. Proficient in Java, C++, Basic, LabVIEW, and Linux/Bash. Experience in Data Acquisition and GUI development and implementation. An enthusiastic and professional team player.

EDUCATION

Cornell University, Ithaca, NY

B.S. Engineering Physics (top Engineering Physics program in the nation)

Cumulative GPA: 3.49

Extensive training in LabVIEW for analytical interface and control.

University of California - San Diego, La Jolla, CA

M.S. Materials Science and Engineering

Cumulative GPA: 3.71

Additional coursework in object-oriented programming.

RELEVANT EXPERIENCE

Graduate Researcher, UCSD Department of Physics, La Jolla, CA

Summer 2006 - Present

- Supervised operation and maintenance of sputtering and X-ray diffraction systems.
- Investigated metal-insulator transition in vanadium sesquioxide.
- Investigated magnetoresistance of the FNF trilayer in vanadium dioxide.
- Designed and implemented gas flow control system via EIA-485 interface utilizing LabVIEW.

Undergraduate Researcher

Fall 2005 - Spring 2006

Cornell University School of Applied & Engineering Physics, Ithaca, NY

- Compared imaging methods of TEM, AFM, and SEM for organic semiconductor pentacene.
- Modeled low-voltage transmission electron microscopy and subsequent scattering through organic semiconductors similar to pentacene.
- Documented and released all investigation results per university publication guidelines.

Webmaster, Cornell Club of San Diego, San Diego, CA

Fall 2008 - Present

- Keeping website (<http://ccsd.alumni.cornell.edu>) current with club information as communicated by other members of the board.
- Modifying format to maximize readability, navigability, and attractiveness.
- Attending board meetings to get feedback on these goals and provide the same for other members of the board.