

Darrell C. Sydlo

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Objective:	Seeking an engineering position with focus towards process development, optimization, and improvement.	
Proficiencies:	<ul style="list-style-type: none"> • ASQ Certified Six Sigma Black Belt • Programming (C/C++, PHP, VBA, HTML, Java) • Database Use / Administration (SQL, MySQL) • Web-Based (Roll-to-Roll) Process Development 	<ul style="list-style-type: none"> • Software: Minitab, AutoCAD, JMP, MS Office (including macro development) • Circuit Design with Microcontrollers (hobby-level) • Photosensitive Polyimide Processing
Experience:	<p><u>Hutchinson Technology, Inc.</u> 2007 – Current Component, Material, and Process Development Engineer – Hutchinson, MN</p> <ul style="list-style-type: none"> • Develop, implement, and provide process and material improvements for high-volume manufacturing and lab-scale production using fundamental knowledge and experimental design, primarily for patterned polyimide films with secondary emphasis on patterned metal etching and conductor plating. • Position requires working with and leading cross-functional teams to deploy process and material changes in a complex manufacturing process. • Investigated and implemented process changes that led to significant gains in overall equipment effectiveness and yield by eliminating the need for setups (previously needed on every manufacturing order). • Trade secret recipient for improving adhesion of coverlay to dielectric in additive flexible circuit design. • Performed experiments and manufacturing tests in conductor shaping leading to being named on a provisional patent. • Recently transferred two complex, company-unique processes between plant sites that entailed equipment, process, and product qualification—including operator training. • As a side project, created software tools used daily by manufacturing technicians and engineering to better characterize yield loss patterns. • Assist others in analysis of data and experimental design. • Mentor junior engineers. <p><u>University of North Dakota</u> 2006 –2007 Graduate Research Assistant – Grand Forks, ND</p> <ul style="list-style-type: none"> • Analyzed data to improve modeling of secondary organic aerosol formation. <p><u>SEI</u> 2005 – 2006 Help Desk Technician – Grand Forks, ND</p> <ul style="list-style-type: none"> • Resolved customer computer system issues. <p><u>Keitu Engineers & Consultants, Inc.</u> Summers and College Semester Breaks of 2004 and 2005 Engineering Student Intern – Mandan, ND</p> <ul style="list-style-type: none"> • Consulted, investigated, designed, and prepared response plans for clients under the direct supervision of a professional engineer. <p><u>McDonald's</u> 2000 – 2004 General Manager – Omaha, NE – 2000 to 2003</p> <ul style="list-style-type: none"> • Provided leadership and direction in a multicultural environment of over 40 employees. • Followed up on in-store systems including: training, maintenance, and labor costs. <p><u>United States Air Force</u> 1997 – 2001 Severe Weather Forecaster (primary duty) – Offutt AFB, NE – 1997 to 2001 Computer Programmer/Administrator (additional duty) – Offutt AFB, NE – 1999 to 2001</p>	
Education:	<p>University of North Dakota, Grand Forks, North Dakota 2006 Bachelor of Science (including Masters-level courses)– Chemical Engineering; GPA 4.0 / 4.0</p> <p>Bismarck State College, Bismarck, North Dakota 2004 Associates of Science – Engineering Transfer; GPA 3.9 / 4.0 Outstanding Student of the Year: Chemistry (2004)</p> <p>Metropolitan Community College, Omaha, Nebraska 2003 Associates of Applied Science in Computer Science with Honors; GPA: 3.9 / 4.0</p> <p>Community College of the Air Force, Offutt AFB, Nebraska 2000 Associates of Applied Science in Weather Technology with Honors</p> <p>Bismarck State College, Bismarck, North Dakota 1997 Certificate of Completion, Vocational and Technical Education: Electronics Technology</p>	
Honors:	<ul style="list-style-type: none"> • Air Force Commendation Medal • Summa Cum Laude, Chemical Engineering 	<ul style="list-style-type: none"> • President's Honor Roll (multiple recipient) • Dean's List (multiple recipient)