Curriculum Vitae

Candidate: OG2

Profile

Over 34 years at Fujifilm Corporation, engaged in production engineering development of functional materials, including new products. For both existing and new products, developed and introduced new production technologies, achieving results from the making of prototypes through small-lot production to the stabilization of factory manufacturing, productivity improvement and cost reduction, and thereby contributing to the business. Wishes to apply the technical development knowledge and experience accumulated so far to help improve your company's performance.

Career Details

April 1984 – July 2018 Fujifilm Corporation Job type: Engineer (production engineering development)

Period	Affiliation and Duties
July 1984 – August 1986	[Affiliation] Fujinomiya Plant, Engineering Department, Design Section · Equipment diagnosis, process diagnosis and process analysis of manufacturing/research equipment (measurement, analysis and root-cause investigation of noise, vibration, speed fluctuation, etc.) · In the launch of a film production capacity expansion project, in charge of creating graphic panels for the instrumentation system · Built and introduced on site production management software for a medical film processing system · Newly developed and put into practical use software for an online automatic literature information retrieval system ◎ Developed and introduced in-house the software previously commissioned to outside vendors, which kept down equipment investment costs and also contributed to improved maintenance ◎ Promoted equipment diagnosis within the plant, contributing to troubleshooting of on-site processes
September 1986 – November 1988	[Affiliation] Production Engineering Division, Fujinomiya Branch Office, Development Group · As part of a high-performance paper production capacity expansion project, newly introduced an atomizing dispersion unit and a particle size measurement system; achieved high productivity and cost reduction through shorter dispersion time in the solution preparation process and labor-saving measurement · Analyzed the relationship between coating conditions and coating limits in curtain coating, contributing to practical use several years later ◎ Made full use of the latest measurement and software technologies to contribute to achieving the project ◎ Grasped phenomena under coating conditions with no prior record and collected quantitative data, leading to future practical use
December 1988 – August 1990	[Affiliation] Production Engineering Division (attached to the Personnel Department) · Dispatched as a visiting researcher to the Department of Chemical Engineering (graduate school), University of Minnesota (U.S.A.), and engaged in research on curtain coating flow analysis (understanding and verifying phenomena, searching for stable conditions, etc.) · Analyzed in detail the flow state under various coating conditions through computer-based numerical analysis and visualization experiments ◎ Worked on world-first research; presented the results at academic conferences, submitted a paper, and applied them to the company's future technology development
September 1990 – September 2000	[Affiliation] Production Engineering Division, Fujinomiya Branch Office, Development Group · As chief of the manufacturing technology development group, worked on high productivity and cost reduction in the manufacture of high-performance materials · Introduced a new lamination technology into photographic paper manufacturing, contributing to cost reduction · Developed and introduced a new coating technology in the manufacture of medical image output film, contributing to lower mass-production costs

Period	Affiliation and Duties
	· In the manufacture of medical materials, optimized drying conditions, suppressed defects and contributed to higher yield (cost reduction) · Under a technology contract with a French company, took part as coating team leader in launching local production of functional paper · Analyzed coating flow phenomena by calculation and experiment, contributing to the search for high-speed coating conditions (instability factors) ◎ For production introduction, started from collecting basic data with an experimental machine, advanced the design and construction of a pilot plant and trial production on it, and then, through trial production on the manufacturing floor (in cooperation with the manufacturing department), brought the technology to production introduction ◎ In the production start-up at the French company, despite encountering major troubles, negotiated with the counterparty and proposed ways to avoid problems; including technical follow-up, delivered on schedule
October 2000 – September 2001	[Affiliation] Production Engineering Center, Development Group, Fujinomiya · As a new production technology, started developing microfabrication technology (technology that adds value to display materials, etc. by giving the substrate surface fine structures), which gained recognition within the department and the company ◎ Assisted the Group Promotion Leader (Department Manager), carrying out cross-functional group coordination and liaison
October 2001 – January 2011	[Affiliation] Production Engineering Center, Development Group, Fujinomiya · As Principal Researcher (managerial position; Group Leader), engaged in production technology development of high-performance materials and its management · As leader of the dispersion development team in a new functional film development project, realized the introduction of a new dispersion machine · Promoted the development and trial production of new products and, as coating leader, realized the commercialization of photographic functional materials and others · Served successively as workplace safety committee chair, wastewater countermeasure group leader, suggestion promotion committee chair, etc., contributing to revitalizing the workplace, including workplace safety · As workplace intellectual property leader, promoted responses to other companies' patents and the company's own patent applications ◎ Proposed to and persuaded the department head to introduce new equipment, and obtained approval for a large investment ◎ Promoted joint research with multiple universities to obtain differentiated technology, contributing to technology development ◎ With support from other departments, upgraded an experimental machine to a production machine, and achieved commercialization through the united effort of the members
February 2011 – September 2014	[Affiliation] Production Engineering Center, Development Group, Odawara · When a new major theme became a project, relocated the workplace to Odawara together with some members and continued the work · As sub-leader of a medical-related new functional material development project, continued from fundamental research to practical application research · In a new optical material product, promoted manufacturing technology development related to the molding process ◎ Worked from the start of research on new product development in the medical field, which was attracting attention within the company, and, as leader of the manufacturing technology development and prototyping team, advanced product development without precedent in the company
October 2014 – July 2018	[Affiliation] Production Engineering Center, Development Group, Odawara (department renamed Precision Process Technology Center in 2018) · Appointed Senior Expert and concentrated on work closer to research and development · Continued manufacturing (microfabrication) technology development of high-performance (optical) materials (as Group Leader, pushing ahead with commercialization) · As patent strategy team leader, continued handling patent matters and patent education for members (following up on nearly 50 applications) · As workplace environment committee chair (plant central committee member), promoted environmental maintenance of the plant and workplace (prevention of environmental troubles) ◎ Placed emphasis not only on R&D but also on negotiations with other manufacturers and business divisions and passing technology on to members, and worked on introducing new technologies from a broader perspective

Period	Affiliation and Duties
October 2018 – present	[Affiliation] None (freelance) · As technical advisor/adviser to more than 10 companies, in charge of manufacturing technology issues of existing products, technology development of new products from small-lot prototyping to mass production, support such as judgments on patent applications and countermeasures against other companies' patents, and technical seminar lecturing

Skills

- Expert in coating technology, which continuously forms thin, uniform films of chemical solutions on substrates, and in microfabrication technology, which forms fine uneven structures on surfaces
- Ability to set research themes for new product development and carry them through (mainly production engineering development and prototype development)
- Project management ability for business start-ups and product development, and practical ability in manufacturing process control and quality control
- Strategic management ability in intellectual property, and practical ability from patent searches to responding to other companies' patents and judging patent applications

Self-Presentation

- Since joining the company, for about 34 years as an engineer and researcher, has continuously worked on manufacturing technology (in particular solution preparation, coating and drying technology and microfabrication technology). Has especially tackled the challenge of developing new process technologies and equipment and putting them into practical use.
- After becoming a manager, mainly worked on new product development, carrying out as a group the series of tasks from product design, prototype making and evaluation to mass-production technology development, as well as theme discovery.
- In parallel with R&D, has also handled patent-related work (patent searches, patent applications, responses to other companies' patents, etc.) and has taken the lead in formulating patent strategy in new product development. In handling and filing patents, investigated and analyzed the content of more than 10,000 patents in total (including overseas patents) and followed up on many members' applications.
- Also has extensive overseas experience, including long business trips for production start-ups and business negotiations at overseas manufacturers.
- Has a record of serving as safety committee chair and environment committee chair in the department and promoting plant safety and environmental activities.
- Served successively as patent promotion committee chair and suggestion promotion committee chair, working to strengthen workplace ingenuity, improvement activities and intellectual property capability.

Other Achievements

- Conference presentations: 9 in total (6 in Japan: Institute of Information and Electrical Communication Engineers, Society of Chemical Engineers, Japan, and others) (3 overseas: AIChE and others)
- Papers submitted: 1 (University of Minnesota, U.S.A.); journal contribution invitations: 1 (Society of Chemical Engineers, Japan); invited lectures: 3 (Convertech Study Group, Society of Chemical Engineers, Japan)
- Patent applications: 154 in Japan (19 granted) and 21 overseas (mainly coating technology and fine pattern structure molding technology)
- Overseas work: besides the dispatch to a U.S. university, 5 overseas business trips (total stay abroad of about 3 years)
- Joint research with universities: 7 projects (Nagoya University, Kyushu University, Shizuoka University, Hoshi University, Osaka University, University of Minnesota, U.S.A.)

- In-house seminar lecturer: 6 times (coating and drying technology, microfabrication technology)
- In-house awards: 3
- English: TOEIC 730 / TOEFL 550 (1990), Eiken Grade 2
- Qualifications obtained include Hazardous Materials Engineer (Class B, Category 4), Class 1 Information Technology Engineer, Drying Equipment Operations Chief and Intellectual Property Management Skills Certificate Grade 2